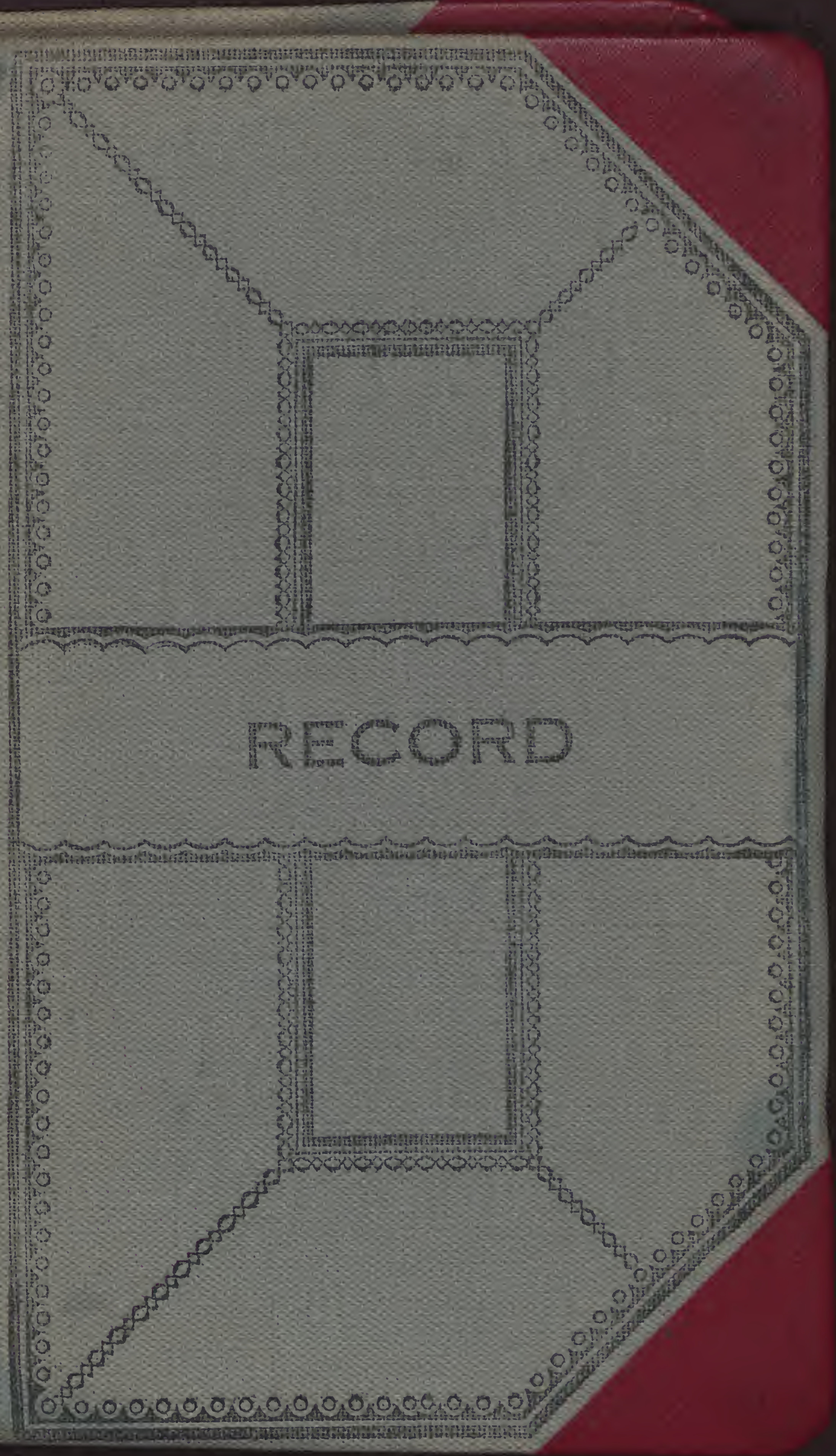

RECORD

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SHOUT
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IT

F. R. Fosberg

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ion Ave., N.W.
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Collection and Field Note Book

No. 76

(June 20, 1965 - Aug. 1, 1965)

(46190 ----- 46838)

Page No.

CALIFORNIA
Hayward (Alameda County) 2-3
46190 2-3

HAWAII
Honolulu (Oahu)....... 46191-46192 2-3

WAKE ISLAND................................ 2

MARIANAS
GUAM.................................. 4-53
Tamuning 46193-46194 4-5
Fonte River...... 46195-46202 4-7

Agana 46203-46207 6-7

Ritidian Point....46208-46211 10-11

NAS, Agana 46212-46216 10-11

Mangilao......... 46217-46218 14-15

Harmon Field......46219-46221....... 14-15
Anderson AFBase.. 46222-46223...... 16-17

Ritidian Point....46224-46234 16-19

Info from Sue 20-21

Cetti Bay 22-23

Talofofo Bay 46235-46242 24-25

Mt. Lamlam 46243-46266 26-33

GUAM (continued)

Talofofo Bay........ 46267-46271 .....36-37, 34

Asanite Bay...... 46272-46278 36-39,35

Toto............. 46280 38-39

Agana 46281 38-39

Yona 40

Inarajan .... 46282-46289 .... 42-43, 40

Nimitz Hill 46290 44-45

Barrigada 46291 44-45

Inarajan 46292-46293 44-45

Merizo .... 46306-46307..... 52-53

NAS, Agana 46294-46298 46-47

Inarajan 46299-46305 50-53

CAROLINE ISLANDS

Yap 54-71
46308-46357 56-71

Yap-Ulithi via M/S ROQUE 72

Ulithi 72-107
46358-46507 78-107

Yap .... 46508-46608.....108-133

Falalap 134-135
Ulithi 135-149

Ulithi-Fais........................ 150-153

Fais ....46648-46733..... 154-167

Lamotrek 46734-46838 184-198
173-198

Guam labels
apparently still
missing
46227
46275

Guam Daily News
Feb 19 1965

Bronson, 55, Succumbs to Heart Attack

Albert B. Bronson, 55-year-old businessman from Tamuning, died Wednesday night shortly after he collasped while walking along the beach behind his residence, police reported yesterday.

Bronson was pronounced dead upon arrival at Guam Memorial Hospital at 10:20 P.M. by Dr. Jesus F. Paryna, a GMH physician.

Police said an autopsy performed yesterday morning reported heart attack as cause of death.

According to police, Bronson was walking along the beach with a family friend when he was stricken at about 9:45 P.M. Wednesday. The friend, whom police did not identify, immediately notified Mrs. Bronson who called the tamuning Fire Station for an ambulance.

Police quoted Mrs. Bronson as saying her husband had been suffering from heart condition.

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r.

at

rw,

1965

~~Labels typed~~

46190 June 20 Hayward, Alameda Co., Calif.

2 cultivated ornamental

June 22 Honolulu, Oahu, (H. I.).
in trampled lawn, Wilder Ave + Punahou St.

1 91 Euphorbia prostrata
~~occasional~~ rare

1 92 Synedrella
common

June 26 – Wake Island
brief stop during night.

Coconut and Pandanus tectorius trees 3–4 m. tall have been planted across from terminal bldg. Gossypium growing here.

Ipomoea tuba abundantly in flower at 4:30 a m, flowers strictly erect, somewhat fragrant.. Inner sepals several mm longer than outer. Stamens and stigma well included.

A large depression, probably a borrow pit, excavated between terminal and shore.

---

shrub 2 m. tall; buds only.

prostrate green, not at all purplish.

prostrate; rays yellow, 4–5, short.

Labels typed.

1945 Marianas I.

with M. Evans June 26 – [illegible]
Tamuning
around buildings

46193 Polygonum capitatum Hamilton ex D. Don
4 planted as lawn, on coral gravel

4 94 Lagenophora?
abundant on coral gravel

With M. Evans June 26–27 – Lower Fonte River
on slope of deep ravine

9 95 Adenanthera pavonina L.
[illegible] one seen

9 96 Tectaria crenata
common on limestone ledges

2 97 Thelypteris
occasional on contact
between limestone and tuff

7 98 Glochidion
occasional on limestone
ledge in semi-shade

12 99 Phyllanthus
very common on cut
in limestone

46200 Glochidion
5 common in dense shade
in Leucaena thicket with scattered
large trees

14 01 Pterocarpus
one tree seen

Guam

2 m. — introduced recently by H. Mayo nursery

prostrate, mat-forming,
leaves [illegible] dark red-marked,
— flowers pale pink.
solid stands; rosettes
of few leaves, scapes erect.

15 m ↓

tree about 15–20 m. tall,
— flowers dull yellow
fronds ascending

fronds arching
from short prostrate
— rhizome.
shrub 3 m. tall,
leaves [illegible] reddish
when young, scarcely
or not at all glaucous
beneath, fruit green,
aril scarlet.
— scarcely branched
erect shrub 1–1.7 m.
— tall, flowers greenish.
slender sprouts from
dead snags; leaves
somewhat to not at all
glaucous, more so when
— young.
large spreading umbrella-
shaped tree with several trunks,
about 20 [illegible] m. tall

Labels typed

1965 Marianas Is.

46202 Cananga odorata
1 common

June 27 – Agana
with M. Evans on gravel flat just back of beach

9 03 Dentella hyssopifolia
occasional, with D. repens

1 04 Spermacoce suffruticosa Jacq
rare

6 05 Hedyotis corymbosa (L.) Lam.
common

1 06 Alysicarpus
occasional

8 07 Paspalum ~~longisetum~~
common

General appearance of vegetation in Agaña.-Fonte area – green, little evidence of typhoon remaining – Leucaena mainly fruiting, some evidence of snail-rasping of smaller branches. Young Heterospathe elata abundant. Glochidion shrubs under Leucaena mostly seem to have

---

Guam

tree 8 m. tall, flowers green.

2 m ↓

very prostrate, rooting at nodes, forming thin close mats, flowers white.

flowers white.

ascending to prostrate, flowers white.

prostrate, forming small mats; flowers maroon.

dense small tufts, culms spreading to ascending.

main stems dead and side branches green, a very few flowering. Leaves much larger than on bushes in volcanic area. Fruit very similar. Young leaves tend to be glaucous beneath, older not. The large tree along Fonte River collected sterile in 1950 is in fruit – is Pterocarpus.

1965 Marianas Is.

Delonix regia is in full bloom, is common, varies from scarlet (usual) to orange red.

On way to north end on the Agana-Wettengel Andersen road no patches of anything like good forest seen - some Pandanus scrub and general secondary thickets. No Pennisetum polystachyon seen in open areas - probably there but too young to be conspicuous. P. purpureum is low and only beginning to sprout actively, no racemes.

~~Northwest~~

Andersen - Northwest Field road all secondary thicket with scattered skeletons of larger trees.

Northwest Field area - Spathoglottis flowering. Operculina not seen.

Ritidian Point - forest is completely

Guam

closed again - no sign of typhoon damage except numbers of dead or partly dead trees sticking up through canopy.

One Heritiera longipetiolata apparently remaining of two seen in 1957. Two more may be this but a half-mile or so away, not certain. What seems to be the Serianthes nelsoni tree seen in 1957 still looks healthy, but too far away to be sure if it is this. The forest here seems to be about the best remaining in any easily reached place on the island. Centella has reached here, in road.

Pluchea odorata is abundant along road. Momordica and Passiflora very abundant.

Triphasia with ripe fruit.

Flagellaria with buds.

Ficus prolixa var. with green fruits.

Weather - sunny with broken clouds, warm, trade-winds; died down p.m.

Labels typed

1945 Marianas Is.

with M. Evans

June 27 – Ritidian Point
Lighthouse, top of cliff.
edge of forest along
road

#6208 Nephrolepis biserrata
on limestone at base of tree

6 09 Geniostoma micrantha
rare

June 29 – Tumon Heights

2 10 ~~Hosta~~ Eucharis amboinensis
planted

6 11 Bougainvillea cf. spectabilis
planted

June 30 – Trust Territory Compound,
NAS Agaña
weed in compound, in
lawns around buildings

12 Passiflora suberosa
common

3 13 Gomphrena dispersa Standl.
local

1 14 Torenia
trampled.

1 15 Spermacoce
near building

1 16 Mitracarpus hirtus ?

Guam

165 m.

fronds erect, tending
to fall or arch.
– shrub about 2 m. tall.

30 m.

acaulescent, scapes erect,
exceeding leaves, terete,
flowers white. fruits
globose, ~~green~~ immature,
one cell of three developed.
– spiny scrambler,
climbing on house, bracts
deep crimson, perianth
white.

70 m

flowers pale greenish,
ripe fruit dark blue.
– depressed, but this may
be due to mowing.
– prostrate, flowers yellow.

1965 Marianas Is.

June 28 - Weather - completely overcast in morning, intermittent rain.

June 29. Sunny, moist broken clouds, hot. Hard showers in afternoon. Calm in evening. Wedelia trilobata around post office - sterile, apparently naturalized.

June 30 - Sunny, some clouds, gentle trade winds.

South end of Tumon Bay at bottom of cliffs - Scrub forest of Barringtonia and Thespesia on ~~the~~ edge of lowest terrace - some Clerodendrum inerme, Wedelia biflora, Pisonia grandis, Allophylus cf. timorensis, one tiny plant of Eugenia palumbi a few small Fleurya ruderalis.

Back of this Pandanus dubius and P. tectorius, very scrubby. 2-step erosion ramp at base of terrace, well developed nip above it. The erosion ramp appears to be a very coarse and very hard beachrock.

Guam

1965 Marianas Is.

Labels typed

July 1 – Mangilao

in ^low^ secondary thickets

4621~~[illegible]~~ 7 6 Jatropha gossypiifolia L.
colony of 20-30 plants

3 18 Dentella repens Forst.
on hard coral gravel roadside

July 1 – east end of
Harmon Field

6 19 Saccharum spontaneum L.
very common along the
road on coral rock in
open areas.

July 2 – Tumon Heights

6 20 Plumeria obtusa L.
planted in dwelling yard

~~21 Bidens leucantha~~
~~abundant in yards around~~
~~houses~~

July 3. same

7 21 Bidens leucantha
abundant in yards
around houses

Guam

~~[illegible]~~
65 m

shrub 2 m. tall, dark
purplish green, hairs green,
flowers red, latex
slightly milky but
translucent.

very prostrate, forming
thin mat, rooting at
nodes; flowers white.

erect close tufts,
rhizomes short, thick,
~~[illegible]~~ flowering canes
to 3 m. tall.

30 ~~[illegible]~~ m.

shrub 2.5 m. tall,
very lactiferous;
Corollas white with
yellow centers; fragrant.
"Singapore Plumeria" (H. Mayo)

30 ~~[illegible]~~ m

herbs up to 1.5 m. tall
rays white, disk yellow.

S Labels typed

July 3 - South entrance to Andersen Air Force Base
In low weedy meadow near road

L
4

46222 Cyperus ligularis L.
.9 locally common

8 23 Paspalum longisetum
3 common

July 3 - Ritidian Point, plateau near lighthouse
with M. Evans in dense scrubby mixed forest on rough limestone

6
20 24 Guamia marian~~nensis~~ae
~~slender tree abo~~
common

6 36 25 Serianthes nelsonii Merr.
very rare, one tree seen

7
26 26 Heritiera longipetiolata Kaneh.
very rare, 2 trees seen
5 27 Psychotria
locally common
1 28 Cycas circinalis L.
common
3 29 Eugenia reinwardtiana
common

170 m

loose clumps, culms spreading, leaves slightly grayish green.
— Tufts, culms spreading

160 m.

slender tree about 5 m. tall; flowers with fleshy perianth, greenish yellow; fruit immature.
— tree about 14 m. tall, 3 dm dbh. flowers with calyx and corolla greenish white, filaments white at base, maroon purple for most of length, anthers yellow.
— Tree 10-12 m. tall, flowers green.
— shrub 1.5 m. tall, flowers white, fruit immature.

shrub 2 m. tall, flowers white

Labels typed

July 3 – Ritidian Point Light

Area between road and cliff to north is dense closed mixed forest. Two Heritiera trees are about 200 m. 30° e of s. and one Serianthes about 300 m. 40° e. of s.

from p. 16

6 4 6 2 30 Eugenia reinwardtiana
2 common in shrub layer

3 31 Psychotria malaspinae
common in shrub layer

6 7 32 Psychotria malaspinae
common in shrub layer

9 33 Psychotria mariana Bartl.
locally common in
small openings

7 21 34 Claoxylon marianum M.-A.

160 m ↓

— shrub 3 m. tall, fruit not quite mature, pale green.

— shrub 1.2 m. tall, flowers white, fruit immature.

— slender shrub 2.5 m tall, flowers white, fruit immature.

— shrub 2.5 m. tall; flowers white, fruit green, turning red.

— small tree, 10 m. tall, fruit immature, each cell 2-lobed.

1965 Marianas Is.

~~Feb.~~ June 3 –

Information from Sue Guamanian girl at Shells of Micronesia.

Young seeds, a cm or two in diam. ~~[illegible]~~ of Cycas circinalis (fadang) are pounded, applied to persistent sores on face – clear up the sores in a few days.

The juice of boiled leaves of Momordica charantia is drunk for ulcers, also to clean intestines in case of indigestion and gas.

Leaves of "banalo" [=Thespesia] are used for gas on stomach.

Bark of Terminalia catappa peeled off, heated, coconut oil or other oil added, wrapped hot around sprained ankles.

Heart of base of dead banana stalk used to poultice and cure deep ulcers.

Alma Hill said that in certain of the Mortlock Is. it is believed that eating fruits of Morinda citrifolia by a man has a contraceptive effect.

Jose Torres says gab gab (Tacca leontopetaloides) tubers crushed, starch washed out with water, the resulting fresh suspension drunk for fever.

July 4 - head of Cetti Bay
basalt road cut with
water seeping out -
Pteris vittata occasional
on this cut.

Hot day, sunny with some clouds.

Saddle bet. Lamlam
and Jumullong Manglo
and slope of Jumullong M.
has been burned,
as well as the road
work - bad erosion
scars have started.

Along road up the
mountain a number
of Cyathea lunulata in
open Miscanthus and
edges of thickets.

Melastoma has white
flowers. Polygonum
paniculatum very common
on eroded places.

On limestone crag
to north of road is a
patch of thick scrub
forest - Aglaia, Elaeocarpus,
Ficus, Guamia, Pandanus, etc.
The limestone is very
dissected and rough.
The edges, for a few
m. are covered with
Miscanthus, and
some clumps are
up on the top of the

limestone ridge. Leaves
quite wide. Medinilla
rosea, Maesa, Piper
guhamans, and an
unidentified sterile,
opposite leafed vine
are common in the
undergrowth. Freycinetia
also very common, a
few in bloom. Morinda umbellata.

Some Triphasia. The
interior of the forest is
mossy and cool.
Many ferns - asplenium,
Belvisia, etc.

July 5 - high limestone ridge
north of Talofofo Bay and
the plateau at its base,
above the road, covered
by mixed forest, with
small cultivated
clearings up on the
ridge on flat spots.
One place, high on the
ridge, appears to be a
plugged sink-hole
with straight sides
with caves in them.

Many swifts flying
around this area.

Momordica common ~~on~~
floor of sink-hole.

Hot sunny day, some clouds.
Hard rain toward evening at Merizo.

1965 Marianas

~~Labels typed~~ with M. Evans

July 5 – high ridge ~~south~~ north of Talofofo Bay in scrubby forest on rough limestone

46235 Ramalina?
6 on twigs of dead tree

6 36 (lichen)
on twigs of dead tree

~~6~~ 37 Cycas circinalis L.
common

3 38 Mucuna gigantea
climbing in tree in small clearing in

6 39 Annona
one tree in small cultivated clearing

same – ~~on~~ just below edge of rough limestone cliff, in pits and crevices

3 40 Hedyotis foetida
occasional

July 5 – "Pirates Cove," Togcha, about 1 mi. n. of Talofofo Bay
sandy beach

6 41 Canavalia rosea
common

2 42 Sophora tomentosa
common

Guam

110 m

110 m

110 m shrub 1 m. tall, leaves 1-1.5 m. long; sporophylls and bracts erect in a central mass.

100 m extensive vine climbing in tree, upper parts with fruits dead, sprouts growing from lower parts.

100 m. tree about 5-6 m. tall; petals 3, erect, very fleshy, pale green.

130 ~~115~~ m. dwarf shrub; odor when crushed very disagreeable; flowers white.

2 m.

prostrate vine, flowers bright rose-~~[illegible]~~ color.

shrub 2 m. tall, flowers bright yellow.

~~Labels typed~~

with m. Evans July 4 - south peak of
Mt. Lamlam
in thick mossy scrub forest
on rough limestone

46243 Maesa
6 common

2 44 Medinilla rosea - sterile branches?
common

2 45 Morinda umbellata var. glandulosa
occasional, climbing in trees

380 m

shrub 1.5 m. tall,
— fls. and ripe fruit white.
prostrate vine

— twining vine.

July 6 - Mt. Lamlam
with informant, Jose Torres.

Pupulan aniti - Piper guhamense
not used
Abas - Psidium guajava.
Tintanchina - Cestrum diurnum
Piga - Alocasia
stems cooked and eaten
in times of famine.
Nunu - aerial roots cut into
sections, split and boiled,
water drunk as antipyretic

Morinda citrifolia
budding heads chewed
with betel nut. "lada"

Davallia solida
used medicinally

The road, from the Lamlam-Jumullong Manglo saddle north to Lamlam is not passable - in places partly washed out and overgrown with Miscanthus, Leucaena, Piper, Alocasia, etc. in places.

Hot sunny day with some clouds.

Labels typed

1965 Marianas Is.

July 6 - Mt. Lamlam

2 46246 Jasminum simplicifolium
in scrub on limestone peak

1 47 Psidium guajava L.
in scrub on rough limestone

6 48 Torenia
common locally in trail

5 49 Maesa
common in open scrub

7 50 Belvisia mucronata
epiphytic on trunk
of Pandanus tectorius

9 51 Geniostoma micrantha
rare in scrub forest
on rough limestone

5 52 Piper guahamense
abundant in undergrowth
in open scrub forest on
rough limestone

6 53 Cestrum diurnum L.
common in openings in
scrub forest on rough limestone

8 54 Tarenna sambucina var. glabrata
rare in scrub forest on
rough limestone

9 55 Pisonia umbellifera
rare in open forest on rough
limestone

Guam

405 m. liana, flowers white,
fragrant, corollas falling
400 m. readily.

sterile shrub 2 m. tall
"abas"

370 m. prostrate, forming
loose mat, corolla yellow.

↓ shrub 2 m. tall; fruit
translucent white, soft,
when mature, not much
flavor, but a slightly refreshing
taste.

small erect tree 4 m. tall;
flowers white, hairy within,
fruit green until dehiscence,
when it turns blackish; seed
mass orange.

shrub 1-1.5 m. tall;
ripe fruiting spikes
brick-red, pendent,
soft and mushy.
"pupulan-aniti".

shrub 2 m. tall, flowers
white; fruits black.
"tintan china".

shrub 2.5 m. tall,
flowers whitish; fruit
immature.

360 m large tree 20 m. tall; buds
dull pinkish white, 10 stamens
in 1 or 2 open flowers.

Labels typed

1965 Marianas Is.

46256 Cycas circinalis L.
1 common in ~~scrub~~ open forest
on rough limestone

7 57 Morinda citrifolia L.
common in open forest
on rough limestone

2 58 Ficus prolixa var. subcordata Corner
occasional in forest on
rough limestone

4 59 Humata heterophylla
epiphytic on Ficus trunk

1 60 Medinilla rosea Gaud.
common epiphytic and
on coral rock, in forest.

15 61 Davallia solida
common on trunk of large
Ficus

8 62 Vittaria.
common on trunk of large

6 63 Piper guahamense C.DC.
abundant in undergrowth
of scrub forest on limestone

7 64 Morinda umbellata var. glandulosa
climbing in trees in wooded
ravine

14 65 Fagraea berteriana var.
in forest in ravine on limestone,
epiphytic on dead tree,

6 66 Desmanthus virgatus
roadside

Guam

340 m. ↓ shrub 1 m. tall, unbranched.
seed immature.

shrub 3 m. tall, leaves
glossy, flowers white, fruits
not quite mature
"lado" "young budding
heads chewed with betel".

tree badly broken by
typhoon. "palo nunu" "aerial
roots cut in sections,
boiled, water drunk as
antipyretic"!

rhizomes elongate,
close to substrate.

piece to show trinerved
very young leaves on
sterile creeping branch.

rhizome closely appressed
to substrate.

shrubs 1–1.5 m. tall
"pupulan aniti".

300 m. ↓ woody twiner; flowers creamy
white, fruit turning yellowish,
apparently yellow when ripe.

strangling shrub;
fruits orange, glossy,
broadly ellipsoid ~~[illegible]~~, pointed, wrinkling when ripe.

suffrutescent herb up to 1 m.
tall, flowers white.

July 8 - south side of Talofofo Bay, near mouth. Talus of earth and boulders at foot of limestone cliffs - vegetation an irregular mixed scrub forest of Leucaena, Triphasia, Guamia, Melanolepis, Pandanus tectorius, Ochrosia oppositifolia, Cordia with a single large Intsia Cynometra, and with Hibiscus tiliaceus near shore, Carica in openings, abundant ~~young~~ seedling Carica also in openings. Otherwise no herbaceous growth at all.

General height of forest 5-8 m.

Much rotting wood probably still remaining from Typhoon Karen. Fungi abundant on this.

July 8 - Asanite Bay, just north of Talofofo Bay

Back of road coconut plantation overgrown with Scaevola, Leucaena and Wedelia.

Limestone cliffs back of that with tangled Hibiscus tiliaceus, Mammea odorata, Ochrosia, Tournefortia, Pandanus tectorius, Hernandia, P. dubius, Triphasia, Thespesia, Pipturus argenteus, and, in upper parts, great spreading, gnarled twisted Heritiera longipetiolata. Procris abundant on rocks.

About 6 or 8 trees of Heritiera seen, at perhaps 35-40 m. elevation.

Labels typed 1965 Marianas Is.

with M. Evans July 8 – north side of
Talofofo Bay, near mouth

46267 Citrullus vulgaris Schrad.
1 one plant on bare roadside

same – in scrub forest on talus at foot
of limestone cliffs, ~~in scrub~~

13 68 Melanolepis multiglandulosa
occasional

15 69 Guamia mariann~~ensis~~ ae
common

8 70 Guamia mariann~~ensis~~ ae (Saff.)
common

14 71 Guamia mariann~~ensis~~ ae
common

Labels typed

July 8 – Asanite Bay
in dense tangled / scrub forest on rough
limestone cliffs

6 72 Procris pedunculata
common on limestone ledges

15 73 Heritiera longipetiolata Kaneh.
locally common

6 74 Ficus prolixa var. carolinensis
common

5 75 Maytenus thompsonii (Merr.) Fosb.
occasional

3 76 Allophylus
occasional

Guam

45 m

25 m.

small tree 6–7 m. tall.

tree 6–7 m. tall; flowers greenish yellow
with 3 outer petals
spreading, somewhat
thickened, 3 inner ones
Merr. very thick, erect.
Tree 5 m. tall – [otherwise same]

[same as #46269]

40 m.

stems fleshy,
plant up to 50 cm. tall.
gnarled, twisted;
widespreading tree
with almost no trunk
(Warb.) Fosb. low tangled shrubby
tree; figs immature.
scrambling shrub,
petals white, rotate.
depressed shrub, sterile

Labels typed ~~4~~ 1965 Marianas

46277 Eugenia
2 rare
45 78 Heritiera longipetiolata Kaneh.
locally common

with M. Evans July 9 - west side ~~south end~~ NAS Agaña.
south of Harmon Field.
7 79 Melochia
common in edge of
shrub thicket on bare coral soil.

with E. G. Johnston July 9 - Toto
3 80 Cnidoscolus urens
cultivated in gardens

July 10 - Agaña
6 81 Cordia sebastena L.
planted as street tree

Guam

low tangled shrub,
flowers white.
large, spreading
gnarled, twisted tree,
about 8 m. tall, 20 m.
across

60 m.

shrub 3 m. tall.

erect very thick-stemmed
herb, stems with septate
pith, lactiferous, petiole
with lines of stinging
hairs on upper sides;
perianth white salverform.
"Kadogan". leaves and
stems cooked and eaten
as a vegetable, stems
peeled after cooking.
Used especially with fish.

small tree 3-4 m. tall;
flowering abundantly,
corollas vermillion.

July 11 - Yona -
vegetable stand
selling
radishes
eggplants - long slender ones
peppers - a very narrow
one about 4" long.
yard beans.

iba - Averrhoa bilimbi

July 11 - Inarajan, 1 mi n.
edges of garden and
in garden itself
Boerhavia erecta very
common; green onions in
garden.

~~Labels typed~~

1945 Marianas Is

July 11 - about 1 mile north of Inarajan

~~on ??~~

46282 ~~8~~9 Boerhavia erecta
abundant in garden

1 83 Cyperus kyllingia
occasional in lawn.

July 11 - Inarajan

1 84 Gardenia jasminoides
planted as an ornamental

1 85 Clerodendrum bungei
planted as ornamental

July 11 - 1½ mi. west of Inarajan, in savanna hill

6 86 Phyllanthus saffordii
abundant

6 87 Wikstroemia elliptica

6 88 ~~Crotalaria~~ cumma ~~[illegible]~~ retusa ~~a~~
occasional

6 89 Curcuma
local around old farm, forming dense masses

Guam

3 m stems ascending; flowers pink.

heads white

5 m.

much branched shrub 2 m tall flowering abundantly; flowers white, turning yellowish, very fragrant.

shrub 2 m. tall; leaves foetid; ~~a~~ cymes of pink flowers crowded at top of plant.

north of Umafit, ~~s~~ w. of Asdonas Hill, s. of Inarajan River

75 m.

shrubs up to .8 m tall, fruits dark red.

shrub 1 m. tall; flowers yellow.

flowers bright yellow.

rhizome bright yellow inside, with a pungent, unpleasant taste, outside whitish, roots thick, fleshy, stems erect, bracts ~~pur~~ rose-purple, flowers yellow. plant up to 2 m. tall.

Labels typed

1965 Marianas Is Guam

July 11 - Nimitz Hill

46290 Asparagus sprengeri
3 planted in garden

many stems from ~~[illegible]~~ base, arching, flowers white, fruit scarlet.'

July 12 - Barrigada 65m.

1 91 Yucca
planted in garden

Mays says this was brought from Los Angeles in 1945-46 and planted ~~[illegible]~~ around Com-marianas

several rosettes in clump, ~~[illegible]~~ axes elongate to 3dm., scapes on two rosettes ~~[illegible]~~ 2 m. tall, flowers cream white, not opening, ~~[illegible]~~ tips of segments remaining approximate but loosely so, outer segments well separated laterally. filaments ~~bent~~ sharply reflexed about 2/3 the way up; stigmas separate only at tips.

July 11 - 1 mile west of Inarajan, n. of Asdonas Hill
60m.

4 92 Teramnus labialis
around scattered bushes in "latte site" in savanna hills.

Twiner, fruits dry, from last year.

July 11 - Inarajan 5m.

1 93 Panicum
occasional in low hedge around garden

1965 ~~Guam~~ Marianas Is.

Labels typed

July 13 - NAS Agaña,
Trust Territory Compound
46294 Spermacoce
4 common around buildings

July 13 - NAS Agaña
along air strips
46295 Lippia nodiflora L.
4 common, planted as
ground cover.

6 96 Lippia nodiflora L.
common, planted as
ground cover

Mayo says these two forms
differ somewhat. He is
using them, especially
46296, as ground cover

July 13 - NAS Agaña, Mayo
nursery
4 97 Gardenia /taitensis
planted as ornamental

3 98 Phyllanthus
common weed.

Guam

65 m.

erect herb, leaves dark
purplish green above,
flowers very small, pinkish
white 4-parted.

65 m.

prostrate; peduncles
erect heads purple,
corollas white:
"serrate form" acc. H. Mayo,
local nursery & landscape man.

prostrate; peduncles
erect; heads purple,
corollas white.
"entire-leafed form" acc. H. Mayo.
local nursery and landscape man.

in extensive plantings
in NAS Agaña. Says
they are very aggressive,
overcoming competition, esp. when
mowed.

65 m

shrub 2 m. tall, much
branched; flowers white,
fragrant. Introduced by H. Mayo.

1965 Marianas

July 14 - 1½ mi. w. of Inarajan, n. of Umafit n.w. of Asdonas Hill

Semi-abandoned plantation - with coconut trees, a semi-open undergrowth of Glochidion, Cycas, Annona muricata, Hibiscus tiliaceus, coconut seedlings, etc. Curcuma sp. very abundant, ~~[illegible]~~ up to m. tall, forming dense patches. Urena lobata.

Epiphytes common
Davallia solida
Humata diversifolia
Belvisia mucronata
Pyrrosia lanceolata
~~some as~~ Vittaria elongata
some Polypodium scol-
Asplenium sp.

Guam

July 14 -

Mayo says he has brought in several small yuccas. Says he brought in Clerodendrum indicum (big one with purple lvs.).

Three plants of Mussaenda Doña Aurora brought in. Mayo tried to establish them, one died, 2 survived, of these one went to imports, Mayo has other.

Clerodendrum bungei brought in by Mayo 1956?

Pangola grass planted by Mayo below Government House, controlled erosion very effectively.

Calotropis gigantea white form brought in by a Hawaiian, but distributed by Mayo.

Clerodendrum indicum very showy large clumps of fls. purplish outside, white inside, long stamens, spreads by underground runners.

Acalypha godseffiana green form distr. by Mayo.

Gardenia radicans grows well here but so far has refused to flower.

Labels typed

1965 Marianas

July 14 - Inarajan
along road just back of town

46299 Diospyros discolor Willd.
8 doubtless planted

July 14 1½ miles w. of Inarajan, north of Umafitt, ~~n~~ w. of Asdokaol Hill ~~near~~ Inarajan River

46300 Acrostichum aureum L.
2 in ravine bottom in muddy soil

8 01 Cerbera dilatata Mgf.
common in ravine forest patches

Guam

5 m. tree 10 or more m. tall. ~~young~~ leaves hanging vertically; young ones reddish; in bud only.

75 m. ↓

~~fronds~~ rhizome procumbent, several cm. thick, fronds reclining, tangled some sterile, some partly fertile.

— lactiferous shrub 2.5 m. tall, much-branched tangled; flowers white, somewhat fragrant; ~~calyx lo~~ sepals oblong, unequal in width, petals very broadly obovate, eye dull orange, red just within, throat just over twice as ~~th~~ long and twice as thick as tube, strongly prismatic, with ~~very~~ 5 strong and irregularly developed folds or flaps within, lenghways above anthers, which are at base of throat; ovate-cordate, acute. fruit pendent, immature, green speckled with whitish.

Label typed

1965 Marianas

same – in old plantation

46302 Asplenium
1 uncommon epiphyte on trunk of
coconut tree

7 03 Humata heterophylla
common, epiphytic
on coconut and cycad trunks.

2 04 Vittaria
common epiphyte on coconut
and cycad trunks.

same – in thicket

5 05 Bauhinia
occasional

avol? ↓ July 14 – Merizo (plants brought in by Jose Torres as vouchers for ethnomedical information)

2 06 Euphorbia hirta L.

2 07 Phyllanthus

Abrogosa
tea made from this
and used for fever.
Very bitter. Topping

Guam

30 m

stems close to ~~coconut~~
substratum, climbing
vertically.

Tufted, fronds arching,
vertically oriented.

shrub 3 m. tall, petals
pinkish, marked with red, two
upper ones yellowish and with
much more red.

"golondrina" "boiled and
water used for douche
and for washing sores"
Jose Torres

"maigo lalo" "chewed by
surajans and given to child
for fever. Boiled, alone or
with golondrina (Euphorbia hirta)
and ~~used~~ water used for
douche."

1965 Caroline I.

July 16 – saw woman on road near airstrip with skirt of Enhalus.

village at s. end – Magachagwill
weedy Acalypha "chimbung"
"not eaten".

lowlands planted to coconuts, with undergrowth of bananas, Codiaeum, small breadfruit trees, etc.
Polypodium scolopendria very common on ground.

W of Ngariy – Opalis

Derikan – w. of airstrip.
Gleichenia savanna with shrubs of several sorts – Acacia confusa, Commersonia, Glochidion, Melastoma, Macaranga, etc.
Hedyotis ~~etc~~ very common.
Nepenthes mirabilis
Patches of Dimeria.

Thol a Zol, w of Gachipar
Mussaenda bark a wash
stem used medicinally

Gachipar – in village

Yap.

Adilep Keng V.
Hippobroma

In the central southern part of Yap I., southwest from Colonia to beyond the airstrip are substantial areas of savanna – much of it Pandanus savanna, with grass and especially sedges, much of it with Gleichenia and miscellaneous bushes.

Higher in hills to the north is forest. Forest in low spots is largely Campnosperma.

In the central parts of Tomil-Gagil are large areas of more extreme savanna, with Myrtella and typical savanna shrubs, much of this badly eroded. In the low areas back of the mangroves are forests of Campnosperma, etc. Patches of marsh choked with Cyrtosperma, with an occasional plant of Colocasia. Xanthosoma cultivated around villages. No Alocasia seen.

Labels typed

1965 Caroline Is.

July 16 – T~~…~~owai: west of Magachagil
~~ar~~
around dwellings in low
flat coconut plantation

46308 Acalypha
1 rare

July 16 – west of Ngariy
" 09 Oxalis corniculata L.
weed along path

July 16 – near pond south of
Dezikan, Yap
in ~~fern~~ Gleichenia savanna
" 10 Hedyotis
very common
" 11 Dimeria
locally common
" 12 Melastoma
occasional
1 13 Helicteres
rare on roadside
July 16 – Keng Village
north of Colonia
" 14 Hippobroma longiflora (L.) G. Don
12 locally common on roadside bank

July 16 – Thol, or Tol, 3/4 mi.
west of Gachpar
1 in roadside thicket
" 15 Mussaenda frondosa L.
occasional

Yap

2 m

"chimbung", said not to be eaten.

10 m. flowers pink

15 m.

erect shrub, unbranched or
scarcely branched.
erect

low shrub, flowers
white.
erect; flowers lavender
10 m.

"adilef" regarded as poisonous
according to local people.

20 m

shrub 2 m. tall,
corolla bright yellow, enlarged
calyx lobe white.
"bach" or "wach"
stems said to be used medicinally.

Labels

typed

1945 Caroline Is

4 6316 Tristellateia australasica Rich. ?
common
47

July 16 - Gachipar,
Tomil - gagil T.
in village

3 17 ~~Salomonia~~ Polygala paniculata L.
common

1 18 Portulaca samoensis v. Poelln.

Yap.

twiner climbing
in trees; petals yellow.

1-2 m

flowers white

1965 Yap

July 17 –

Very disturbed burned over area probably formerly grassy, on small knoll, soil thickly covered by "buckshot", some of it bare, with Haloragis, 2 spp. Phyllanthus, Salomonia, Polygala, Hyptis, Fimbristylis g. tristachya

Pangium edule – rowal

Gagil-Tomil savannas in burned spots the shrubs seem to be mostly sprouting from base after being severely burned:
Premna
Scaevola
Melastoma,
Eurya nitida
Blechnum orientale
Nepenthes
Commersonia
Gleichenia
Scleria 2 spp.

Curculigo coming up and flowering abundantly

Colonia
Cult. plants
Clerodendrum thomsonae
Plumeria obtusa
Polyscias scutellaria
Alpinia purpurata
Alpinia nutans
Jatropha curcas
Casuarina equisetifolia
Cycas circinalis
Cordyline fruticosa
(large leafed, green)
Clerodendrum indicum
Hedychium coronarium
Manihot esculenta

Hedyotis, Myrtella, Machaerina, Spathoglottis, Rhynchospora rubra all common in adjacent unburned savanna, but not seen resprouting.

Scaevola and Commersonia seedlings in burned area.

aringál – Mgba

What appears to be Marattia fraxinea used for leis.
"man man"

Labels typed 1945 Caroline Is. Yap

with M.V. Cushing

July 17 - 1 mile e. of Tegeren Canal
Tomil - Gagil
in Gleichenia savanna
on red soil

40 m.

7	46319	Trema common along road	shrub 1 m. tall, stems with unpleasant odor when cut; flowers pale green. fruit immature.
5	20	Trema common along road	same
12	21	Diospyros ferrea var. in scrubby thicket	small tree or shrub 4 m. tall, much branched; fruit yellow turning reddish.
3	22	Schoenus calostachyus occasional	small tufts, stems ascending to erect.
6	23	Eurya nitida Korth. common	erect shrub 1.2 m. tall fruit immature
9	24	Myrtella benningseniana common	compact shrub to 1 m. tall; flowers white
6	25	Eurya nitida Korth. common	erect shrub ~~[illegible]~~ 1.5 m. tall; flowers white.
1	27	Dianella ensiformis (L.) DC. rare	flowers blue.
1	28	(grass) in bare soil along road	
1	29	Stackhousia rare in bare soil	
3	30	Anisaea common in burned area	Twiner climbing on dead shrubs; bud only.

Labels typed

July 17 - Dalipebinaw Dist.
near Yap High School, about ½ mi. w. of Gilam.
w. s. w. of Colonia 30 m.
in eroded grassy savanna

46331 Phyllanthus stems prostrate
8 common on bare ground

~~8~~2 32 Salomonia cantoniensis Lour. flowers blue
occasional on bare ground

8 33 Phyllanthus erect, leaves ~~somewhat~~
common on bare ground closing after collect~~ing~~

1 34 Polygala paniculata L. erect. flowers white.
rare on bare ground

10 35 Haloragis erect
locally abundant in bare ground

July 16 - near pond south of Deriben, Yap 15 m.

3 36 Nepenthes mirabilis flowers brick-red to greenish.
occasional in Gleichenia savanna

July 18 - same loc. as 46331.
roadside

2 37 Cyperus ligularis L. small erect clumps. leaves grayish green. concave above.
one plant seen

July 18 - ~~Kam.~~ Ma'lai Village, Mun. Kanifay 3 m
in rather dispersed village area shaded by coconut trees. ↓

5 38 Pteris tripartita rhizome about 3 cm thick, erect, 20 cm. high, stipes erect.
occasional

5 39 ~~Marattia~~ Angiopteris evecta Hoffm. rhizome corm-like, depressed, stipes stipulate, fronds spreading, sterile, ~~[illegible]~~ pinnae articulate.
rare

(to p. 68)

Rd 4.5 mi. S. of airport jct.

"gari~~wao~~wáeg" callicarpa

"abäch" Crataeva
fruit said to be boiled and eaten.

lak – Cyrtosperma

Mal – Colocasia
Thol – breadfruit

pau – banana
("denai" in Tomil gagil)

pau also is squash or pumpkin
"pau ngigamaman".

"guregur" = orange

Peperomia pellucida
boiled & water used for boils.

amunigch – Pep. pellucida

k'ai = Taeniophyllum
(spider, or octopus)

Pteris – Tilibu

reng – Bixa

lem – Antrophyum

gob or gor – Polypod. scol.

Mr. Jim Boylan says that on Yap a very competent local authority on medicinal plants is a woman named Tinan in Gachipar

Sabola typed (from p. 64) 1965 Caroline Is.

7 m

46340 Callicarpa candicans (Burm. f.) Hochr.
2 occasional on old rock platform.

2 41 Phyllanthus
common locally in
slightly open places.

2 42 Crataeva speciosa Volk.
common understory tree

1 43 Peperomia pellucida HBK.
common on mossy rocks

1 44 Pilea microphylla L.
abundant on large rocks

1 45 Hedyotis biflora (L.) Lam.
occasional on large rocks

1 46 Ormosia?
common, planted for
hedges

2 47 Pteris quadriaurita L.
common generally, terrestrial

2 48 Taeniophyllum
occasional on mossy tree-trunks

Yap

small shrub, flowers
white. "gariwáea"

Tree 5 m. tall, with an unpleasant stale odor when wilted, buds wide
open from first; petals
white, turning yellow,
stamens maroon;
fruits (on another tree) strongly
speckled with white, pendent,
varying in cross-section
from round to square or
somewhat ~~and~~ oblong.
"abich" fruit said to be
boiled and eaten, to have
been much consumed
especially after World War II.

stems fleshy; plant
said to be boiled and
water used in treatment
of boils. "amwuch"

stems fleshy, prostrate
to erect.

flowers white, corolla
tube inflated.

small tree to 4 m. tall;
flowers dull whitish
lined with brown.

rhizome horizontal, short,
thickly covered by roots
and fronds. "tilibu"

roots flat, closely adhering
to bark. fruit immature.
"k'ai" (meaning spider or octopus.)

Labels typed 1965 Caroline Is.

4 6349 Callicarpa candicans (Burm. f.) Hochr.
uncommon

1 ~~3~~2 50 Digitaria
very local, on large
mossy rocks.

2 51 Bixa orellana L.
occasional

~~6~~3 52 Antrophyum reticulatum
locally common,
epiphytic on tree-trunks.

1 2 53 Psilotum nudum (L.) Beauv.
rare, ~~e~~piphytic on tree trunk.

1 54 Dendrobium?
rare, epiphytic on tree trunk

8 55 Polypodium scolopendria Burm. f.
abundant, terrestrial

2 56 Nephrolepis biserrata (Sw.) Schott. det. 1956 Jarrett
occasional, on rocks

2 57 Passiflora edulis Sims
planted

Yap

erect shrub, flowers
— pink.
delicate, decumbent to
erect.

sterile shrubs 2–3 m tall
— "reng"
"lem"

flowers orange.

rhizome horizontal, creeping
extensively. fronds erect
(sori in some eaten by small
caterpillars). "gob" or "gor"
fronds erect

vine, bud only. said to
have been brought in
by agriculture dept. to
supply vitamins.

1945 Caroline Is.

July ~~20~~ 19 - left Yap on M.S. Rogue at about 6:30 weather completely overcast and rainy.

July 20
Off Ulithi at 7 a.m.
Anchored Mogmog I. 8:50.

From lagoon Mogmog appears covered from end to end with coconuts except for short sand-bars or spits. An understory of other trees shows here and there. Several boat-houses here and there along lagoon shore. No large breadfruit trees emergent above coconut canopy. Herbaceous vegetation on sand spits. Many young coconut trees under older ones along lagoon shore.

A small bare sandbar 100 m. or so east of Mogmog on reef.

Mogmog I.

Spermacoce suff. - "youal"

Morinda cits. - "lol"
Callicarpa "hatar"
fruit eaten when dead ripe. used medicinally also trunks used for building (on Yap leaves heated and applied for backache)

Muntingia intr. during war. fruit eaten

Carica - "papaya"

Zoysia tenuifolia
intr. during German or Jap. times.

Crinum - machia

sweet potato "kamote"

Phyllanthus "hamasord pipi"

Pseuderanthemum atrop.
intr. during Jap. times

Musa ~~[illegible]~~ "inch"

Cassia occ. "haialeng"
leaves used for leis.

Catharanthus "iuthul ep sets"
intr. during Jap. times

Crataeva "iabuch"

1964 Caroline Is

Boerhavia - "yowal"

Nicotiana tab. - "tobaco"

Plumeria

Artemisia 'iarbwas'
lvs. used for leis because
of odor. also
medicinally

Premna "iar"
fls. & young lvs for
leis, also medicinally

Ixora casei - "hachio"
fls. for leis.

Asclepias "koé"
int. Jap. time
name from another pl. with similar lvs.
moss lum

Citrus lemon

Artocarpus "mai"
coll. seedless "mafoi"
cylindric, low pyramids

Cyperus jav. "fàtil
bulio"

Art. mariann. "mamol"

Ulithi atoll

Blechnum - "yowal"

Chrysopogon -
int. Jap. time

all grasses - "fadel"

Pilea "lum"

Alocasia "feleh"
stem eaten

sugar cane 'malzel"

Ocimum "oarang"

~~Hy~~Hibiscus tyh. "floras"
int Jap. time

Ficus tinct. 'howal"
used for medicine
fruit eaten.

Plumeria rubra - "soul"
brought in Spanish time.

Francis Uwas - informant

posts of boat houses
of coconut trunks, & other
spp. perhaps not grown here.

Labels typed 1964 Caroline Is.

with M. Evans July 20. – Mogmog Islet, around dwellings in village, shaded by coconut palms.

46358 Spermacoce suffrutescens Jacq.
6 1 locally common

~~1 59 Ca~~

1 59 Callicarpa candicans (Burm. f.) Hochr.
occasional

6 1 + Fo. 60 Muntingia calabura L.
occasional

8 3 61 Zoysia tenuifolia Trin.
forming dense carpets locally, very abundant

6 1 62 Phyllanthus
locally common

7 1 + Fo. 63 Cassia occidentalis L.
locally common

6 1 + Fo. 64 Catharanthus roseus (L.) G. Don
locally common

3 1 65 Ipomoea batatas (L.) Poir.
planted

6 1 66 Crataeva speciosa Volk.
common understory tree

1 67 Boerhavia repens L.
occasional

6 1 68 Artemisia vulgaris L.
very local

(to p. 82)

Ulithi

1–2 m.

Informant
Francis Uwas

plant purplish, corolla white. "yowal" (name applied to several small plants)

— sprouts, sterile. "katai" (2 informants)

small tree, 4 m. tall, flowers white. Said to have been introduced during war.

— fruit said to be eaten. introduced during Japanese time.

"hamasorol pipi"

flowers yellow "baialeng" (2 informants)

— ~~flower~~, leaves used for leis.

dwarf shrub, flowers magenta. (white flowered form also here)

— "ithol ep-sets"

creeper. "hamoté"

tree 4–5 m. tall, petals white, turning yellow. stamens reddish, "iabuch"

fruit eaten cooked & raw

— "fruit eaten". "abuch" (another informant)

prostrate, leaves white beneath. "yowal" (name used for several small plants.

— aromatic herb, "iarbwai" used for leis because of odor, also medicinally.

1945 Caroline Is.

July 20 ~~Assor~~ Asor Islet

Spermacoce
Eleusine
Tridax
Centella
Emilia sonchifolia
Lippia nodiflora
Calophyllum
Tacca
Hymenocallis
Premna "iar"
used to make leis.
Euphorbia cy. "abuliang"
used for leis

Hymenocallis "waching"
fls used for leis
Dentella

Portulaca oleracea "hagui"
boiled with sugar and eaten
Panicum ambiguum
Plumeria rubra
Araucaria excelsa
Hibiscus tiliaceus

Lepturus "fatei"

Vigna "holu"

Mammea "devoz"

Melothria "aroma"

Ulithi atoll

Lippia forms large mats. Tridax abundant.

Carica – "papaya"

Cassytha – "holu"
whole plant eaten by children

Wedelia "yat yut"

Tacca mog mog
"mokumok"

Terminalia cat. "kil"

Polypod. scol. "chi chi"

Nephrolepis – "mara"

Plumeria "soem"
used for leis.

Alocasia "fileh"

Pipturus "aroma"
berries eaten, very sweet.

Xanthosoma violacea "yos"

Cucurbita sp "kalavás"

Fleurya rud. "aromo"

Eugenia "fariap"
fruit eaten when ripe
red when ripe.

Ficus tinct. "howan"
(Woleai)

The village is shaded by coconut trees, with scattered breadfruit, with a few Crataeva, Musa, Hibiscus tiliaceus, Carica, etc. as a very irregular, very open understory. Eastward from the village the coconut plantation continues, with a much denser understory of Premna, Hibiscus, Pipturus, Melochia, Artocarpus, Musa, Carica, Terminalia samoensis, Ficus tinctoria, Eugenia sp. etc. Polypodium, Alocasia, ~~and ma~~ Nephrolepis, and many weeds cover the ground, especially near paths, where Euphorbia, Wedelia, Vigna, Physalis spp. Eleusine, and other grasses become abundant. Cassytha is very common. green.

On the trails, as well as in the village, Zoysia Lippia nodiflora, and Centella form mats.

In small clearings sweet potatoes are planted also Alocasia and Xanthosoma violacea. This is the first place where I have seen Alocasia planted and tended - spaced plants in small depressions with weeds pulled out.

Common food plants seen are
Cocos nucifera
Ipomoea batatas
Carica papaya
Musa sapientum
Crataeva speciosa
Artocarpus altilis
Artocarpus mariannensis
Alocasia macrorrhiza
Xanthosoma violacea
Saccharum officinarum
Eugenia sp.
Ficus tinctoria
Cucurbita maxima

Labels typed

1965 Caroline Is.

46369 Asclepias curassavica L.
1 + Fo very local

4 1 70 Ixora casei Hance.
local

2 71 (moss)
local, on coral sand soil.

3 1 72 Artocarpus altilis (Park.) Fosb.
common

3 2 73 Citrus
planted

6 74 Cyperus javanicus Houtt.
common

3 75 Artocarpus mariannensis Trec.
occasional

3 2 +76 Chrysopogon aciculatus (Retz.) Trin.
Fo, Bish. local

3 1 +77 Blechnum brownei f. pubescens Lam.
Fo. occasional

2 1 +78 Vernonia cinerea var. parviflora (Bl.) DC.
Fo. occasional

2 79 Pilea microphylla L.
common

3 - 80 Eleusine indica (L.) Gaertn.
common

another informant said "mangaritē"

"mai" general term for breadfruit tree – informants

Ulithi Atoll

herb 1 m tall, flowers with red corolla, yellow corona, "ko'e" ~~so named~~ - introduced in Japanese time, so named because of another plant with same shaped leaves, with this name.

shrub 2 m. tall, flowers scarlet. "hachio" (2 informants) flowers used for leis.
"luum"

tree 6 m. tall (others much larger), lactiferous, young fruit cylindric, disks low-conic, "mai mafoi" seedless.

small tree, sterile, strong lemon-scent

gray-green, in tufts.
"fa'til hulis"

large tree. "mamol"
fruits seedy

creeping, fruiting culms erect. Introduced in Japanese time. "fadal" (= grass)

fls. purplish.

"luum"

Labels Typed 7+E

1965 Caroline Is.

46381 Alocasia macrorhiza (L.) Schott 1-2 m
ƒ1 occasional (planted,
at least on Asor Islet)

2 82 Cyperus kyllingia Endl.
rare

ƒ1 83 Ocimum sanctum L.
occasional. planted

ƒ1 84 Hibiscus rosa-sinensis × schizopetalus ?
planted

1 85 Ficus tinctoria Forst.
rare here

ƒ1 +86 Fo- Eragrostis tenella (L.) Beauv.
occasional

with M. Evans (also 46478?)

July 20 - ~~Asor~~ asor Islet 1-2 m
on coral soil around
building in village

Fo. Dist.

ƒ 2 +87 Centella asiatica (L.) Urb.
common

ƒ3 +88 Lippia nodiflora L.
very common, (but not
seen on Mogmog I.)

ƒ1 +89 Fo- Tridax procumbens L.
common to abundant
locally

1 90 Emilia sonchifolia (L.) DC.
occasional

ƒ1 +91 Euphorbia cyathophora Murr.
common locally

ƒ1 92 Stachytarpheta jamaicensis (L.) Vahl
occasional

ƒ2 93 Dentella repens Forst.
locally common

Ulithi atoll

caulescent. "pelah" (2 informants)
stem ~~[illegible]~~ cooked and eaten.

heads white

aromatic herb. "darang"

shrub; flowers scarlet.
'floras'

— sterile shrub "howal"
used medicinally;
fruit eaten. —— (2 informants)

creeping

creeping, forming mats,
flowers white.

rays white.

heads purple

erect, base of bract red.
— "abuliang" used for leis.
flowers light blue

very prostrate, flowers white.

Labels typed 7-8

1965 Caroline Is.

46394 K2 Panicum ambiguum Trin.
common

K1 95 Portulaca ~~lutea~~ oleracea L.
common

K3 96 Cyperus compressus L.
very local

K1 Fo + 97 Euphorbia hirta L.
locally common

K2 98 Lepturus repens var.
local

1 + Fo 99 Vigna ~~lutea~~ marina (Burm.) Merr.
common

46400 4 Alysicarpus
rare, one small mat seen.

3 + 01 Mammea odorata (Raf.) Kost.
rare

2 + 02 Carica papaya L.
very common

6 03 ~~Wedelia biflora~~ Melochia
~~very common in edge~~
~~of village~~. occasional

same - in weedy coconut grove in interior of islet.

3 04 Premna obtusifolia R.Br.
very common

Ulithi atoll

culms procumbent

fleshy, brownish green.
"hague" boiled with sugar and eaten

~~very loose~~ tufted, culms spreading.

leaves rather glaucous,
plant decumbent. "fatei"

creeping vine, flowers yellow. "holu"

prostrate, flowers flesh-color.

specimens from sterile sprouts & seedlings, tree 5 m. tall but apparently still battered by typhoon, almost leafless.
"devoes"

small soft-stemmed tree. "papaya" "paiwii"

~~sprawling herb, aromatic~~,
~~heads yellow~~, ~~"[illegible]"~~
shrub 3 m. tall, petals crimson white distally. "aroma"

shrub, flowers green "iai"

Labels typed F.R.F.

1965 Caroline Is.

46405 Cassytha filiformis L.
6 + common, parasitic on many other plants.

2 + 06 Terminalia samoensis Rech.
occasional

3 07 Melochia
occasional

6 + 08 Wedelia biflora (L.) DC
very common.

9 09 Nephrolepis biserrata
occasional, growing on pile of rotting coconut husks

6 + 10 Polypodium scolopendria
very common

3 + 11 Hymenocallis littoralis (Jacq.) Salisb.
planted

1 12 Pipturus argenteus
occasional

1 + 13 Fleurya ruderalis
locally common

2 14 Xanthosoma violacea
planted

15 Achyranthes
very local

Ulithi atoll

leafless vine, stems very green (not at all yellow) flowers white. fruit immature. "bolu" whole plant eaten by children

shrub, fruit immature "kil"

shrub 3 m. tall, flowers crimson, white distally; fruit immature

sprawling extensive herb, resinous odor; "yat-yut"

fronds erect. "mara"

fronds erect from prostrate creeping rhizome, fronds mostly much larger than entire frond on specimen.

leaves distichous, basal, scapes 1.5 m. high, ~~with~~ compressed somewhat, edges sharp. flowers white. "wachiing" flowers used for leis. most inflorescences have some flowers broken off.

"machiing" acc. another informant.

shrub, sterile. "aromá" berries eaten, said to be very sweet.

stems red fleshy. "aromá"

petioles and veins dark purple, leaves glaucous. "yar

labels typed 7+E

1965 Caroline Is.

46416 Fleurya ruderalis
5 + very local

4 17 Physalis
common

5 18 Solanum nigrum L.
occasional

6 19 Phyllanthus amarus?
common

6 20 Eugenia
rare

4 21 Achyranthes
locally common

22 Physalis
locally common

1 23 Phyllanthus
rare, one plant seen

6 24 Acalypha
rare

4 25 Boerhavia cf. mutabilis R.Br.
rare

4 + 26 Dactyloctenium aegyptium (L.) Willd.
local

1 27 Conyza canadensis v. pusilla (Nutt.) Cronq.
local along trail

31 + Fo. 28 Tacca leontpetaloides (L.) O. Ktze.
locally common

7 29 Ficus tinctoria Forst.
occasional

3 30 Eleusine?
very local

4 31 Digitaria
very local

Ulithi atoll

1-2 m stems green, fleshy. "aroma"

flowers with central area brown, tips of lobes yellow-green

flowers white, ripe fruits black.

-fariof" fruit red when ripe, eaten.

tree 6 m. tall, some tendency to cauliflory, stamens whitish

herbs up to 1 m. tall.

unbranched erect shrub

erect

prostrate, leaves white beneath, flowers pinkish.

culms spreading & ascending.

sterile

scapes almost 2 m. tall, leaves very complex, 6 dm. ± across. "mogmog"

shrub 2 m. tall, fruit immature "howan".

erect.

culms ascending.

Labels typed 1945 Caroline Is.,

46432 Cenchrus brownii R.+S.
8 1 common very locally
6 2 33 Euphorbia glomerifera (
common in open cultivated
~~area~~. clearing.
6 1 +34 Physalis angulata L.
common in open cultivated
clearing

~~35~~. same — in village
3 +35 Casuarina equisetifolia L.
planted

July 27 — ~~Asor~~ Ason Islet
on the lagoon side of
a high lagoon beach ridge
64 36 Euphorbia chamissonis (Kl.+Gke.)
common in sand at top of beach
76 +37 Pemphis acidula Forst.
rare on coarse gravel
6 +38 Ipomoea pes-caprae ssp. brasiliensis (L.)
abundant in full sun

4 39 Euphorbia chamissonis (Kl.+Gke.) Boiss.
common
3 +40 Polypodium scolopendria
common
5 4 +41 Triumfetta procumbens Forst. f.
abundant, forming mat.
~~with other creepers~~
2 42 Pandanus tectorius Park.
occasional near top of ridge
1 43 Emilia sonchifolia (L.) DC.
rare

+46440 a Euphorbia hirta L.

Ulithi atoll

culms decumbent at
base, ascending.
(Millsp.) Wheeler
erect, tips arching.

"pangpeng" much branched herb
1.8 m. tall; flowers
greenish yellow with
greenish & brownish center.
1-2 m. small tree 4 m. tall.

Boiss. prostrate; leaves white
beneath.
shrub 1 m. tall, rather
spreading; flowers white.
v. Ooststr. prostrate creeper, elongate
to some meters; flowers
deep rose purple.
spreading dwarf-shrub;
leaves white beneath.
fronds erect from prostrate
rhizome.
extensive prostrate creeper,
flowers yellow.

small tree with prop roots,
4 m tall; fruits from ground beneath.
flowers purple.

Labels typed

1945 Caroline Is.

4 6444 Scaevola taccada (Gaertn.) Roxb.
4 occasional on top of ridge

Fo
1 1 + 45 Tournefortia argentea L. f.
common

Fo
5 1 + 46 Pisonia grandis R. Br.
near top of ridge, local
5 2 + 47 Morinda citrifolia L.
Fo, Bish common, near top of ridge

6 1 48 Pipturus argenteus
very common, locally
forming main component of scrub

7 1 + 49 Triumfetta procumbens Forst. f.
Fo common, forming thick
mat with other creepers
4 + 50 Barringtonia asiatica (L.) Kurz
rare on top of ridge

same - inner part of
east end of islet
3 + 51 Thuarea involuta (Forst. f.) R. & S.
common locally
2 + 52 Hibiscus tiliaceus L.
Fo, Bish occasional in thickets
1 53 Leucaena leucocephala (Lam.) de Wit
rare, a few seedlings only seen
in clearing.
1 + 54 Euphorbia cyathophora Murr.
Fo occasional, with red form.

Ulithi Atoll

shrub 1.5 m. tall; "lad"
corolla lobes edged
with purple, otherwise white.
shrub 2.5 m. tall; leaves
fleshy, frosty green; flowers
white, in all stages ~~of~~
from bud to young fruit
in different cymes. "chel"
small tree, sterile.

shrub 3 m. tall, flowers
white, fruits in all
stages. "lol" fruits eaten ripe with sugar. bruised leaves used for poultices. crushed young fruits used medicinally.
shrub 1.5 m. tall, spreading;
leaves greenish white beneath;
ripe fruiting receptacles
white, soft-fleshy.
prostrate with
ascending branches;
flowers yellow.
sterile small tree.

prostrate, forming a loose
mat.
small tree leaves
pale beneath. "kulifoy"
unbranched seedling 0.7 m.

herb 0.7 m. tall; base of
bracts white.

Labels typed

1965 Caroline Is.

46455 Ipomoea tuba (Schlecht.) Don
1 Fo + occasional

2 56 Melothria
very common in thickets
on sharp gravel

5 2 +57 Fleurya ruderalis
Fo, Bish common on sharp coral gravel

same - on seaward
beach ridge

4 3 58 Hedyotis albido-punctata (Merr.) Fosb.
small colony on
rocks on inner slope

8 3 59 Callicarpa candicans (Burm. f.) Hochr.
common in scrub

2 1 +60 Canavalia cathartica Thou.
Fo common in thickets

1 +61 Guettarda speciosa L.
Fo rather rare

same - in forest well
in from outer beach

5 3 +62 Lippia nodiflora (L.) Rich.
local

1 63 Fimbristylis cymosa R.Br.
rare in thick herbaceous
vegetation under coconuts.

3 +64 Portulaca samoensis v. Poelln.
in cultivated clearing, common.

2 65 Cyperus javanicus ??
rare in clearing

Ulithi atoll

sterile twines.

shrub 1.5 m. tall,
flowers with red center,
petals white distally.
bushy herb, stems fleshy,
bright red.

Plant ~~fleshy~~, spreading,
leaves thinly fleshy;
corolla white.

shrub 2 m. tall; leaves
white beneath; flowers rose-pink.
twines; corolla magenta-pink

shrub 2 m. tall; flowers white,
with rather rancid odor.

stems decumbent to
strongly ascending,
flowers white. said to have
come in during World War II.

prostrate, fleshy, flowers
yellow.

1965 Caroline Is.

Labels typed

same - in gardens
around dwellings in village

46466 Citrus aurantifolia (Christm.) Swingle
1 rare

1 + FO 67 Nicotiana tabacum L.
occasional

1 + FO 68 Plumeria rubra L.
occasional

1 69 Dioscorea
occasional

x 1 + FO 70 Calophyllum inophyllum L.
rare

x 1 71 Cucurbita maxima
common

1 72 Polyscias fruticosa (L.) Harms
planted as hedge

1 + FO 73 Pseuderanthemum carruthersii
var. atropurpureum (Bull) Fosb.
planted

1 74 Inocarpus fagiferus (Park.) Fosb.
planted

2 75 Psidium guajava L.
planted, one seen

1 US + 76 Mirabilis jalapa L.
planted

1 77 Tagetes
planted

1 + US 78 Manihot esculenta Crantz
planted

Ulithi atoll

shrub 1.5 m. tall, sterile.

herb 1 m. tall, sterile.

shrub 1.5 m. tall. sap
milky, stems 2 cm. thick.
small twiner, stems
narrowly alate; sterile
small tree; sterile.

extensive vine; leaves
gray-spotted; flowers
orange; fruit with somewhat
narrower neck, but
straight, pedicel slender suddenly
expanding to 2-3 times its
diameter where ~~it~~ attached
to fruit. "calawas"
shrub to 1 m. tall,
aromatic; sterile.
shrub 2 m. tall; leaves
dark maroon: sterile

small tree, somewhat
yellowish green. sterile.
much branched spreading
shrub.
~~flowers~~ much-branched
herb; flowers crimson.
herb 0.4 m. tall, with very
strong disagreeable odor, flowers orange.
shrub 2 m. tall; leaves very
yellowish green. sterile.

1945 Caroline Is.

~~As~~or Islet. — east end is surrounded by a very high boulder ridge, certainly in places up to 6 m high, at least. In places on both lagoon and seaward beaches the slopes of the ridge are bare and black, in other places covered by a mat of vegetation or thickets.

— east side ~~middle~~ of lagoon — Two ~~small~~ tiny islets on separate scraps of reef. the northern one apparently gravel, with some debris accumulated on it but no plants visible. mas!

Bezeef I.

The southern one, is mostly sand, built up at least 1-2 m., some gravel at ends, has a small grove of Tournefortia with 2 taller coconuts emergent from it, 2 coconut seedlings on the sand platform which is much larger than the Tournefortia grove.

Ulithi Atoll

July 22 — Falalap Islet

West end has high sand dunes on south side, probably 8 m.

— Cassytha used as baby food — mother chews it up for baby. "ilul" (Eclin) "ulul" acc. other informants

Calophyllum — "fitoy"

Premna "iar". wood for canoe paddle.

— On south side, at least, the beaches are sandy. Two broad but short series of beachrock on south side.

Air strip, asphalted, across west end from n.e. to s.w.

Cyrtosperma pits with some Colocasia; ~~Jussiaea~~ Ludwigia octovalvis, Echinochloa, Alternanthera, Ceratopteris, etc.

A bristle-thighed curlew in open area.

A brown booby, almost black above and on breast flew by.

A flock of common noddies fishing near second islet, 50 or more, circling very close to water; several others flying in pairs over the lagoon farther away.

1965 Caroline Is.

1 Labels typed

July 22 – ~~Aoon~~ Asor Islet
on sand just back of

46479 Cenchrus echinatus L.
x 1 common

x 3 80 Pluchea indica (L.) Less.
very local

July 22 – Falalap Islet
high sand dune

1 +81 Cassytha filiformis L.
generally common, slopes of

3 1 82 Lepturus repens var. repens
rare on top of

4 1 83 Caesalpinia bonduc (L.) Roxb.
one plant seen on slope of

same – in open or partly
open ground around ~~[illegible]~~
former Coast Guard Station,
now High School.

5 2 84 Lepidium virginicum L.
locally common

x 1 85 Amaranthus viridis L.
occasional

5 3 86 Euphorbia thymifolia L.
very local

1 87 Euphorbia chamaesyce L.
very local

Ulithi atoll

1-2 m.

beach

culms caespitose, spreading,
decumbent, slightly
ascending.

– low shrubs 0.8 m. tall,
heads purplish ~~or~~ pink
at anthesis.

green leafless vine.
flowers white, fruit immature
"ilul" or "ulul" (? Mogmog) juice
and chewed plant fed
to babies, chewed first
by mothers.

– long stolons

sterile vine.

plants badly trampled

prostrate, grayish green

prostrate, stems red,
leaves green.

Labels typed

1965 Caroline Is.

46488 Heliotropium ~~ovalifolium~~ procumbens v. depressum (Cham.) ~~Merr.~~ F.+S.
1 rare, ~~near airstrip~~

1 89 Saccharum officinarum L.
very rare, planted

32 +90 Chrysopogon aciculatus (Retz.) Trin.
Fo, Bish.
local around buildings

61 91 Sida rhombifolia L.
common in roads and paths

31 92 Ficus tinctoria Forst
occasional in thickets

94 +93 Desmodium canum
abundant along paths and as a lawn around buildings

same – in rather low moist ground near airstrip

3 94 Ischaemum?
abundant

4 95 Conyza canadensis var pusilla (Nutt.) Cronq.
occasional, very local

12 96 Lepturus repens
rare in meadow of Paspalum distichum

10 97 Paspalum distichum L.
abundant, dominant in large areas

54 98 Pennisetum
common

4 99 Pennisetum
common

Ulithi atoll.

flowers white

canes 1 m. tall. "mahil"

prostrate, scapes erect.

flowers orange.

shrub 3-4 m. tall, fruit pale green.

prostrate to erect, flowers dull reddish.

prostrate, tips ascending, all seen steril.

branches from a large fasciated plant 1 m. tall, (all seen fasciated), heads white.

matted prostrate stems, erect branches. clumps 1 m. tall.

same as #46498 but certain clumps with ~~some~~ most spikes viviparous.

Labels typed

1965 Caroline Is.

46500 Cyperus iria?
very common
7
OK to do
same - in taro pita marsh
2 01 Ceratopteris thalictroides
occasional, submerged
~~8~~ 3 02 Alternanthera repens
occasional. in mud
~~5~~ 3 03 Echinochloa crus-galli
occasional
2 + 04 Bidens pilosa L.
Fi, Bish
2 plants seen on bank of
2 05 Colocasia esculenta (L.) Schott.
common planted
2 06 Cyrtosperma chamissonis
abundant, planted
~~07 Ludwig.~~
~~6~~ 3 + 07 Ludwigia octovalvis (Jacq.)
common
46502A Eclipta alba (L.) Hassk.
1

S. Echin, Ulithian teacher says that there are 5 inhabited islets on Ulithi - Falalap, Asor, Mogmog, Fassarai and Loto (next to Fassarai), people go to other islets to make copra, sometimes stay for a while.

The two small atolls east of Ulithi are uninhabited but belong to Ulithi, whose people go there to harvest copra.

Ulithi Atoll

very small tufts or isolated culms, erect or ascending.

elongate creeper, head whitish.
erect, culms solitary.

blade pointing downward, glaucous beneath. "yoth"
(Schott.) Merr. other plants much larger; blades erect, green.
Raven branched suffrutescent herb 2 m. tall, buds yellow.

July 24 - anchored inside east entrance to lagoon, no chance to get ashore. Left for Yap at 10 p.m. to get radio repaired. Arrived Yap 1:30 p.m. July 25. Rained hard in afternoon.
This week has been abnormally rainy both in Ulithi and Yap.

1965 Caroline Is.

check

Label typed

July 24 – Dalipebinaw Distr.
near Yap High School, gitam

46508 Clerodendrum inerme (L.) Gaertn.
4 1 AV occasional in sparse
brush along road

July 25 – outskirts of Colonia
around dwellings
and garden patches

2 09 Lantana camara var. aculeata (L.) Mold. ck
rare in thicket
10–15 m.

x 1 10 Hedychium coronarium Koen.
locally common in wet ground

1 11 Psidium guajava L.
occasional

1 12 Pachyrhizus erosus (L.) Urb.
one plant seen

2 13 Alpinia nutans (Andr.) Roscoe
planted
2 m.

July 25 – ridge above Nimar,
n.n.w. of Colonia
in thickets and grassy slopes
130 m.

x 1 14 Polypodium scolopendria Burm. f.
common

x 3 15 Fimbristylis tristachya R.Br.
common

2 16 Paspalum orbiculare Forst.
occasional

(to p. 112)

sprawling sparsely
branched shrub, buds
pinkish tinged, stamens
maroon.

~~flo~~ slender shrub 2
m. tall; flowers orange-red.

rank herb 1 m. tall; flowers
white, deliciously fragrant.

shrub 3 m. tall, much
branched.

sterile vine climbing
in tree.

rank herb, many
stemmed from base,
calyx & corolla white
shading to pink distally,
staminodes red with
deep yellow margins.

caespitose; upper part of
spikelet flowering, lower part mature.

caespitose.

1965 Caroline Is

July 25 - rain, though not hard, all morning.

On road bet. high school and Colonia is a coconut with spicate inflorescence. Said to be another somewhere on island.

Trail from Nimar up to beacon on way to Mt. Matade starts in gardens and taro patches around houses, with breadfruit and mango trees, clumps of bamboo, etc. A short distance up there are open grassy slopes and thickets.

Cerbera mangas common - corolla tube gradually dilated into throat, no abrupt division, throat not plicate within, fruits usually single, occasionally double, red when ripe, pendent, eye of flower rich red.

Grassland all the way to beacon being more or less rapidly invaded by shrubs and trees. The following were seen in grassland

Yap

(not including thickets and forest patches in ravines) -

Glochidion
Melastoma
Macaranga
Pterocarpus or Pongamia
Mangifera indica
Calophyllum inophyllum
* Scaevola
* Clerodendrum inerme
Hibiscus tiliaceus
* Wedelia biflora
Premna obtusifolia
Ormosia ?
Pandanus tectorius

* ordinarily strand species.

The top of the hill is marshy, cut by channels ~~and~~ into hummocks, with deep tangle of Fimbristylis spp., Scleria, Ischaemum, and especially Andropogon (?), some Fuirena umbellata.

Patch of forest dominated by Garcinia (?), which has slender trunks 10-15 cm dbh, wide-spreading prop roots in lower 3-4 dm., reproducing abundantly in own shade. Also Ixora and Psychotria in undergrowth of Garcinia saplings.

Labels typed

1965 Caroline Is.

(from p. 108)

46517 Fimbristylis
1 occasional among grass

47 18 Ixora casei Hance
common in thickets

~~19 Acalypha ca~~

6 19 Macaranga carolinensis
common, invading grassland

5 20 Rhus
common in thickets

~~8~~6 21 Ischaemum
common in grassland

~~6~~4 22 Andropogon?
dominant in grassland

1 23. Fimbristylis
occasional in grassland

42 24 Diospyros ferrea var.
in thickets

42 25 Hibiscus tiliaceus L.
~~large~~ common in thickets

July 25 - Nimar in outskirts of Colonia along trail in wet ground

4 26 Lindernia antipoda (L.) Alst.
common

86 27 Ludwigia hyssopifolia (G. Don)
very common

Yap

130 m

shrub 2.5 m. tall; flowers scarlet.

shrub 2 m. tall.

40 m. small tree about 5 m. tall, spreading, fruit black.

60 m. trailing stems, inflorescence ascending.

↓ tangled culms, fruiting ones erect or ascending.

large shrub, 4 m. tall, diffusely branched; this plant extreme in smallness of leaves + fruit.

30 m
↓

flowers light purple or mauve.

Excell erect, flowers yellow.

labels typed

1965 Caroline Is.

July 26 – upper slopes of hill north of Nimas, n. n. w. of Colonia in dense patch of low forest

4 6 5 28 Melochia
5 edges of
6 29 Melochia
edges of
4 30 Macaranga carolinensis
common in edges of
~~7~~ 3 31 Ixora triantha Volk.
occasional in undergrowth
3 32 (guttif.) Garcinia
dominant in —
seedlings abundant.

4 33 Trichomanes
on tree-trunk
1 34 Psychotria
common in undergrowth
3 35 Psychotria
same
3 36 Psychotria
same
4 37 Psychotria
same

July 26 – same, top of hill in shrubby grassland surrounded by thicket
1 38 Spathoglottis
occasional, terrestrial
1 39 Spathoglottis
occasional, terrestrial

Yap

150 m.

↓

shrub 4 m. tall, flowers
— bright pink.
shrub 3 m. tall,
— flowers white.
small tree 5 m. tall

shrub 3 m. tall, flowers
— all fallen, fruit black fleshy.
small tree 8 m. tall, with spreading prop roots; upper leaves much smaller
— than lower; sterile.

shrub 1 m. tall; fruits
— immature.
same, flower white.

same

same

170 m.

↓

~~terrestrial~~ flowers pale magenta-pink.
— flowers white.

Labels typed

1965 Caroline Is.

46540 Scaevola taccada (Gaertn.) Roxb.
3 occasional

3 41 Premna obtusifolia R.Br.
occasional

1 42 Andropogon?
dominant grass

2 43 Scleria
common

x2 44 Wedelia biflora (L.) DC.
common in edges
of thickets

x3 45 Glochidion
common

x3 46 Ormosia?
common

3 47 Fimbristylis
common in flat marshy
ground

8 48 Nephrolepis hirsutula det. Jarrett, 1976
very common

July 26 – Dalipebinaw Distr.,
near Yap High School
about 1½ mi. w of Gilam, w.s.w.
of Colonia
in cleared, disturbed
soil around new dwelling
30 m

x-7 49 Fimbristylis cymosa R.Br.
common

x3 50 Muntingia calabura L.
occasional

Yap

shrub 1.7 m. tall, flowers
white, fruit white.

shrub 2.5 m. tall; flowers
very pale green; fruit
blue-black when ripe.

erect.

stems weak but erect or
ascending.

sprawling elongate
herb, heads yellow.

shrub 2 m. tall,
leaves pendent from
branchlets; fruit immature.

shrub 2 m. tall,
flowers whitish with
brown veins.

stems weak but erect.

fronds erect.

"puah"

shrub 2.5 m. tall, petals
white, fruit immature.
"pelang"

Labels typed

~~9~~ 1965 Caroline Is

46551 Vernonia cinerea var. parviflora (Bl.) DC.
71 locally abundant

72 52 Mimosa pudica var.
very common generally

75 53 Fimbristylis
occasional on bare soil.

91 54 Euphorbia reinwardtiana Bl.
very common on bare soil

65 55 Fimbristylis tristachya R.Br.
very common on bare soil.

32 56 ~~Corchorus~~ Corchorus cf. aestuans
occasional, on bare soil.

4 57 Fimbristylis cf. dichotoma L.
rare, on bare soil.

81 58 Mimosa cf. invisa ?
common

73 59 Ipomoea littoralis Bl.
common in weedy places

Yap

heads bright purple.
"mami"

woody stems procumbent to ascending, leaves purplish green, very sensitive; flowers bright purple.
"dahmi"

small tufts, erect. "puáh"

erect tip arching, sap milky; flowers white. "lulubai"

caespitose, culms erect, basal part of spikelet shedding seeds and scales, terminal part flowering. "puáh"

very prostrate, stems radiating from a root crown; flowers yellow.
"dar'nil"

"gutuguch" or "guruguch".

~~[illegible]~~ angles, stems prostrate to ascending, leaves + stems green, leaves somewhat sensitive to touch; sterile. "pali'ana"

twiner, corolla purple.
"dili"

1965 Caroline Is.

Mimosa -	paliang
Fimbristylis	gutûnguch
Corchorus	dai'nil
Fimb. dist.	puak'
Euphorbia	luluiai
Fimb.	puak'
Mim. pudica	dami
Ipomea	dili
Muntingia	pelang
Fimb. cym.	puak'
Vernonia	mamí

names from "Ilul" or "Leang", chief of Inuf Village.

Yap

One large tree of Ravenala madagascariensis at old Japanese agricultural station site. Said to be one other on island.

Helminthostachys zeylanica brought in.

Ficus elastica in Colonia.

What appears to be Mimosa invisa, but is not at all purplish, is common, forming very unpleasant tangles. All seen are sterile at this season. (#46558)

The Mimosa pudica here is much more robust, woody, and quite prickly, compared with other places. The branches tend to be ascending. (#46552)

1945 Caroline Is. , check

July 28 Hill ½ mi. s.w. gitam ~~near Airstrip~~

Photos spoiled film did not turn

Pandanus savanna with Scaevola and grass.

6 b+w 3 kod.

Pandanus tectorius – up to 8 m. tall, irregularly spaced, 2–20 m.

Calophyllum inophyllum
scattered saplings

Scaevola taccada very
common

Decaspermum fruticosum
common
~~occasional~~ shrubs

Commersonia bartramia
occasional shrubs.

Melastoma
occasional small shrubs.

Macaranga
common
occasional small shrub

Rhus
rare small tree

Glochidion
occasional small tree.

Premna
occasional shrub

Timonius
occasional shrub

Hedyotis
common small shrub

Yap

	herbs Spathoglottis 2 spp.
	Andropogon ? dominant grass
vc	Rhynchospora rubra
c	Scleria
c	Hyptis capitata
c	Nephrolepis
c	Lygodium scandens
c	Cassytha filiformis
lc	Lycopodium cernuum
lc	Ischaemum
c	Stachytarpheta urticifolia
c	Mimosa pudica (near
o	Gleichenia linearis
c	Nepenthes mirabilis
o	Tacca leontopetaloides
c	Fimbristylis
	On bare area
o	Dimeria
c	Andropogon
c	Andropogon
o	Lepturus
l	Phyllanthus
l	Phyllanthus
o	Glossogyne
o	Spermacoce
o	Polygala paniculata
c	Cassytha
c	Rhynchospora rubra
o	Euphorbia reinwardtiana
c la	Gleichenia linearis
c	Nepenthes mirabilis
c	Fimbristylis tristachya
o	Alysicarpus
o	Curculigo orchioides

Farther along road Pandanus is much thicker, shrubs also more numerous.

Locally, in more open areas Lycopodium cernuum is abundant, even dominant.

In depressions are forests, principally of Trichospermum and Pandanus. A few spindly shrubs of Decaspermum, Scaevola and other savanna species. Water spreads out over the ground at least after rain. Very little ground cover. Many vines - Cassytha, Ipomoea, Calopogonium, asclepiad, etc.

In edges Schizaea spp. Lindsaya, etc on bare ground.

Photos spoiled film did not return

2 kod, 2 pan.

July 23 – Left Yap for Ulithi 6:50 a.m.

Weather hot, intermittently sunny, intermittently thinly overcast, a shower or two in sight.

Arrived about 5:30 at anchorage.

Labels typed

1965 Caroline Is.

check

~~Hill~~ July 27 — hill ~~[illegible]~~ 0.5–0.7 mi. s.w. of Gitam, s. of Yap High School in Pandanus – grass savanna

46560 Timonius
X2 occasional

10 8 61 Timonius

6 62 Hedyotis fruticulosa Volk.
common

10 63 Stachytarpheta urticifolia Sims
common

~~64 Stachytarpheta~~

5 64 Hedyotis fruticulosa Volk.
common

1 65 Alysicarpus
occasional

6 66 Melastoma
common

7 67 Gleichenia linearis (Burm. f.)
common colonizing bare soil areas.

2 68 Melastoma
common

4 69 Rhynchospora rubra (Lour.) Mak.
common

2 70 Andropogon brevifolius?
common on bare soil

24 71 Dimeria
common on bare soil

Yap

40 m.
↓

shrub 2 m. tall, old leaves red; fruit immature.
—
shrub 2 m. tall, old leaves turning red, flowers white, abortive fruits green.
—
branched shrub 1 m. tall. flowers purple.
—
shrub 1 m. tall; leaves bright green, bullate, flowers dark blue.

sparsely branched shrub, rather ~~[illegible]~~ reclining to ascending, flowers purple. (wood sample).
—
~~prostrate~~ decumbent stems from root crown.
—
low shrub, 0.8 m. tall flowers white. outer stamens red, inner yellow.
—
rhizome buried. (plants outside bare areas much larger and more complex).
—
shrub 1 m. tall; flowers white; outer stamens red, inner yellow.
—
caespitose, some heads viviparous.
—
procumbent, ~~[illegible]~~ mostly seen sterile.
—
plants erect.

Labels typed

1965 Caroline Is.

Yap

2	46572	Spermacoce common on bare soil		plants erect, purplish; flowers white.
2	73	~~Leptureus~~ Thaumastochloa cochinchinensis (Lour.) Hubb. occasional		
2 1	74	Haloragis common on bare soil		erect. flowers reddish.
1	75	Andropogon occasional on bare soil		sterile
1 2	76	Glossogyne tenuifolia Cass. occasional on bare soil		rays yellow.
1 2	77	Phyllanthus local on bare soil		prostrate
4	78	Andropogon? abundant	50 m.	small tufts, culms erect.
1 8	79	Oxalis locally abundant, especially on bare soil	↓	erect, flowers pink.
4 1 6	80	Curculigo orchioides Gaertn. very common on bare clay soil.		flowers yellow, about at surface of soil.
6	81	Phyllanthus very common on bare soil		erect
4 7	82	Eleocharis common in water-filled trench.		
1 8	83	Euphorbia very abundant on hilltop, especially on bare ground		erect, branches arching at tips; flowers white.
1	84	Salomonia ~~[illegible]~~ cantonensis Lour. occasional on bare ground		flower blue.
4	85	Physalis common on bare ground	45 m.	erect, flowers yellow, no brown area in center.

1965 Caroline Is.

Labels typed

46586 Scleria
34 common

2 87 (fungus)
on Scleria

July 27 - ½ mi. n. e. of pond
near Denkan

Labels typed

in edge of ~~in~~ low secondary forest of
in wide stream valley

1 88 Desmodium heterocarpon
rare

1 89 Spathoglottis
occasional in grass near

~~1 90 Spathoglottis~~

1 90 Spathoglottis
occasional in grass near

1 91 Schizaea dichotoma
common under trees

1 92 Schizaea
occasional under trees

1 93 Lindsaya ensiformis
common under trees

2 94 Ischaemum
occasional in grass at

5 95 Scleria
occasional

#7 2 96 Pandanus tectorius Park.
abundant

Yap

50 m.

50 m. swollen grains greenish
yellow.

20 m.

Pandanus and Trichospermum

branched ~~st~~ herb 1 m.
— tall; flowers bright purple.
flowers pale pink, column
white, lip crimson
— with yellow prominence.
flowers white except
for yellow prominences on
lower part of lip.

leaves curled

stems ascending

stems ascending,
sharp-angled.
— tree 5 m. tall.

1965 Caroline Is.

Labels typed

July 27 – Fuej (Fueis) Village, southeast of airstrip in semi-cultivated secondary forest around dwellings

46597 Bambusa arundinacea (Retz.) Willd.
1 common

2 98 Thelypteris
abundant

~~2~~3 99 Centotheca lappacea (L.) Desv.
occasional

46600 Dioscorea alata L.
~~4~~3 occasional

2 01 Tectaria crenata
occasional

~~2~~ 02 Angiopteris evecta Hoffm.
occasional

4 03 ~~Sperm~~ Hedyotis ?
occasional

+2 04 Spermacoce ocymoides Burm. f.
occasional

~~4~~5 05 Lindsaya
common on wet earth ledges

~~5~~3 06 Dioscorea pentaphylla L.
occasional

~~7~~3 07 Lygodium circinatum
common

4 08 Lygodium cf. flexuosum
occasional

Yap

10–15 m.

culms close together, erect arching at top, 10 m. tall, dark green, up to 5 cm. thick.

— fronds erect from horizontal rhizome, arching at top.

vine climbing in trees, sterile.

— fronds erect.

— fronds almost erect, 3 m. tall, from corm-like rhizome, ~~3 m. tall~~ fragrant when broken.

— scrambling herb, flowers white.

vine climbing in bushes; sterile.

— climbing in trees, fronds fruiting distally, then sterile again.

— climbing in trees.

1945 Caroline Is

July 29 - Falalap I.
Coconut plantation
with some trees
Trees -
Artocarpus
Casuarina
Hibiscus tiliaceus
Carica papaya
Calophyllum inophyllum
Ficus prolixa

Shrubs
Pipturus argenteus
Premna obtusifolia
Morinda citrifolia
Terminalia samoensis
Tournefortia
Plumeria rubra
Melochia

Digitaria
Conyza canadensis
Achyranthes
Dactyloctenium aegyptium
Fleurya ruderalis

Ulithi atoll

Herbs
Alocasia macrorrhiza
Vigna marina
seedlings abundant
in open sand. seedling leaflets acute.
Euphorbia chamissonis
Euphorbia cyathophora
Wedelia biflora
Lippia nodiflora
Cassytha filiformis
Triumfetta procumbens
Eleusine indica
Pennisetum polystachyum
Eragrostis tenella
Fimbristylis cymosa
Pilea microphylla
Phyllanthus amarus
Euphorbia hirta
Sida rhombifolia
Heliotropium oval. v. depr.
Cyperus cf. iria
Cyperus compressus
Tridax procumbens
Desmodium canum
Cenchrus echinatus
Fimbristylis cymosa.
Lepturus repens
Lippia nodiflora
Ischaemum (near airstrip)
Pennisetum (near air strip)
Ipomoea batatas (cult.)
Boerhavia cf. mutabilis
Musa sapientum (cult.)
Oplismenus compositus?

1965 Caroline Is

Taro pits –
ridges of earth a sides built up with rude stone work. Central part with mud filed up almost to surface of water, deeper ditches along sides.

Cyrtosperma + Colocasia both abundant – cyrtosperma to 3 m. tall, scapes 1–1.5 m. petioles + scapes smooth, perfectly cylindric. A slight articulation just below blade, but blade erect.

weeds
Echinochloa
Alternanthera
Blechum
Ludwigia octovalvis
Eleocharis geniculata
Cyperus ~~?~~ brevifolius
Cyperus javanicus
Fimbristylis cymosa
Eleusine indica
Digitaria
Phyllanthus amarus
Vigna marina
Premna obtusifolia
Alocasia
Lippia nodiflora

Ulithi Atoll

on banks
Alocasia
Premna
Ficus prolixa
Vigna
Fimbristylis
Euphorbia cyathophora
Paspalum distichum ? sta
Phyllanthus amarus
Pilea microphylla
Blechum
Morinda
Carica
Stachytarpheta jamaicensis
Pennisetum polystachyon
Lippia
~~Euphorbia cha~~
Lepturus
Vernonia cinerea
Achyranthes
(5 equal broadly lanceolate tepals, fimbriate-ciliate staminodial cup half the length of the stamens + pistil. Fringe + filaments pink.
Polypodium scolopendria

Paspalum vaginatum

1965 Caroline Is

Beach ridge about 5 m. above l.t. along n. coast of Falalap. cobbles to boulders. lined below with eroded beachrock, this very coarse. Shows signs of considerable abrasion, pot-holing, etc. Reef flat no more than 100 m. wide here.

Photos B+W. channels in erosion ramp.
view of erosion ramp
views of beach ridge
abraded part of beach-rock
" erosion ramp
pot holes in same
channels with abrading pebbles in them, in water.
3 shots panorama -
1 erosion ramp with
1 ~ beach-rock remnants
2 pebble beach
" 3, boulder ridge.
2 shot pan. from top of ridge
1 beach ridge
2 reef flat + erosion ramp
1 from top of ridge along ridge
all taken toward west, as sun was a little east.

none of these good because film did not wind.

Ulithi atoll

Boulder ridge covered by a mixture of Wedelia, Callicarpa, Scaevola, Ipomoea, Premna, and Tournefortia.

On open parts, Fleurya ruderalis
Ipomoea tuba
Hedyotis albido-punctata
Polypodium scolopendria
Triumfetta
Lepturus
Tacca.

✓	breadfruit tree	mai
	coconut tree	lu
✓	sugar cane	makil
✓	Alocasia –	feleh
✓	Cyrt.	bula
✓	Colocasia	yoth
✓	Phys. ang.	pangpeng
	fruit eaten	
✓	Hib. til	kulifoy
	bark used for cloth for lavalavas	
✓	Hed. coron.	chiwi~~au~~
✓	papaya	paiwai

A Ulithi man said that Cenchrus echinatus was not here in Japanese time, but came since.

✓ Tacca – mogmog
✓ Morinda – ~~lor~~ lol
fruit eaten with sugar
lvs. for medicine
young fruit for medicine

1965 Caroline Is.

✓ Cassytha – ulul
fed to children
and eaten by adults
✓ Barr. asiatica "hul"
wood used for canoes
and for paddles

✓ Ip. litt. – chóiwel
lvs. used for food

✓ Calli. cand hatar
used medicinally
leaves crushed and
rubbed on sores.

✓ Cassia occ. bialeng
✓ Dioscor. bulb. "palau"
not eaten

✓ Ochrosia opp. mo

✓ Allophyllus ngoi

✓ Eugenia aqu. harfat

✓ Ficus tinct. howal
fruit eaten

✓ Hym. litt. "maching"

✓ Cuc. max calawas

Ulithi atoll

✓ Ixora casei – hachio

✓ Scaevola : lad

✓ Diosc. esc. – tal

✓ Crataeva abuch
fruit eaten cooked or raw when ripe

✓ Lippia said to have
come during W.W. II

✓ Capsicum mig

✓ Artemisia vulg. ~~to~~ iauvas

✓ Asclepias cur. mangarita

✓ Cler. inerme habui

✓ Casuarina lach

✓ Dioscorea alata toog

Areca
✓ Tournefortia chel

Small number of reasonably healthy looking young Areca catechu in village, in sheltered place, about 3-4 m. tall (not collected).

1965 Caroline Is.

~~Labels typed~~

July 29 – Falalap Islet.
under coconut trees
in and around village

46609 Paspalum distichum Berg.
45 common along path
near taro pit

1 10 Hedychium coronarium Koen.
edge of taro pit.

1 +11 Barringtonia asiatica (L.) K
US ~~small~~ one tree seen

2 12 Allophyllus timorensis
one seen.

3 +13 Casuarina equisetifolia L.
occasional

1 14 Dioscorea bulbifera L.
occasional

1 +15 Ipomoea littoralis Bl.
Fo occasional

4 2 16 Eugenia ~~aquea~~ L.
occasional

2 Fo +17 Caesalpinia pulcherrima (L.)
planted

(Swingle
1 18 Citrus aurantifolia (Christm.) ~~[illegible]~~
planted

1 +19 Bougainvillea glabra
Fo planted

1 +20 Thevetia peruviana
Fo planted

4 2 +21 Clerodendrum inerme (L.) Gaertn.
Fo, Bish planted (but said to be
native

1 +22 Pseuderanthemum carruthersii
Fo var. atropurpureum
planted

Ulithi atoll

1-3 m

flowers said to be white
"chiwiu"

ung small sterile tree.
"hul" Wood used for canoes and paddles.

slender shrub 3 m.
tall flowers white. "ngoi" ~~"lach"~~

~~[illegible]~~ tree 10 m. tall "lach"

sterile vine. "palau"
tubers not eaten.

sterile vine "cho'wel"
leaves used for food.

small tree "harfat"
fruits said to be small,
pink or red, eaten.

Sw. ~~planted~~ shrub 1 m. tall,
flowers scarlet.

[illegible] tree 4 m. tall, fruit greenish
yellow when ripe.

small tree, flowers
yellow.

shrub 1.5 m. tall; flowers
white with maroon
stamens and style. "habui"

shrub 4 m. tall, leaves
maroon; flowers bright crimson
pink.

Labels typed 1965 Caroline Is.

46623 Dioscorea alata L.
1 planted

~~8~~ 1 + 24 Muntingia calabura L.
Fo planted

1 25 Dioscorea esculenta
planted

1 26 Artemisia vulgaris L.
planted? specimen discarded

Fo
1 + 27 Ochrosia oppositifolia
occasional

1 27a ~~28 Ach~~ Capsicum frutescens L. planted
same - in coconut - breadfruit land with sweet potato and taro patches.

~~6~~ 1 28 Achyranthes
occasional in open or semi-shade

~~8~~ 4 29 Digitaria
common in sweet potato patch

1 29a Oplismenus (as 29)
~~4~~ 2 30 (fungus)
common on fallen banana "trunks".

1 ~~31~~ 29b Lepturus (as 29) same - ~~outer~~ windward beach ridge

~~4~~ 2 31 Melochia
occasional on inner side of

~~10~~ 3 + 32 Ipomoea tuba (Schlecht.) Don
common on

Ulithi Atoll

sterile vine. "tong"
tubers eaten

shrub 3 m. tall; flower white, fruit pink when ripe, eaten.

sterile vine. "tal"
Tubers eaten.

as"

ker coll.)

Plants of THE CAROLINE ISLANDS

Capsicum frutescens L.

Locality Falalap Islet
Ulithi Atoll

Occurrence Planted under coconut trees in and around village.

Date July 29, 1965 Alt. 1-3 m

Coll. F. R. Fosberg No. 46627a

Remarks "mig" (sheet mixed with another collection)

m. tall,

nge

rose-

to

white.

shrub 1 m. tall; flower with crimson center, white edges.

Tangled vine; flowers white, closing at 11:30 a.m.

Plants of THE CAROLINE ISLANDS

Capsicum frutescens L.

Locality Falalap Islet
Ulithi Atoll

Occurrence Planted under coconut trees
in and around village.

Date July 29, 1965 Alt. 1-3 m

No. 46627a

Coll. F. R. Fosberg

Remarks "mig" (sheet mixed with another collection)

Labels typed 1965 Caroline Is.

4 6623 Dioscorea alata L.
planted

1 x 1 +24 Fo Muntingia calabura L.
planted

1 25 Dioscorea esculenta
planted

1 26 Artemisia vulgaris L.
planted? specimen discarded

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occasional

1 27a ~~[illegible]~~ Capsicum frutescens L. planted
same - in coconut -
breadfruit land
with sweet potato and
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or semi-shade

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common in sweet
potato patch

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x 2 30 (fungus)
common on fallen
banana "trunks".

1 ~~31~~ 29b Lepturus (as 29) windward
same - ~~outer~~ beach-ridge

42 31 Melochia
occasional on inner side of

~~10~~ 3 +32 Ipomoea tuba (Schlecht.) Don
common on

Ulithi Atoll

sterile vine. "toog"
tubers eaten
shrub 3 m. tall; flower
white, fruit pink when
ripe, eaten.
sterile vine. "tal"
tubers eaten.
aromatic. "iamwas"

small tree, flowers
white, "mo".
"mig" (sheet mixed with another coll.)

branched herb, to 1 m. tall,
stamens and fringe
of staminodial cup rose-
pink.

culms decumbent to
ascending.
white.

shrub 1 m. tall; flowers
with crimson center,
white edges.
Tangled vine; flowers
white, closing at 11:30 a.m.

Labels Typed 1965 Caroline Is.

4 46633 Hedyotis albido-punctata (Merr.) Fosb.
~~7~~4 common in open areas on
outside of
~~33~~
same – near airstrip
7a 34 Cyperus compressus
occasional along roadside
(stop)
same – in Taro-pit
1 35 Cyrtosperma chamissonis
planted in mud

1 36 Digitaria
occasional in mud
2 +37 Eleusine indica (L.) Gaertn.
Fo, Bish common in mud ~~in taro~~
x1 38 Fimbristylis cymosa R.Br.
rare in mud
1 39 Phyllanthus amarus
rare in mud
x1 Fo +40 Blechum brownei f. puberula Leon.
common in water
7a 41 Cyperus brevifolius
very common, submerged
6 3 +42 Eleocharis geniculata

~~Yap.~~ Ulithi Atoll

prostrate; leaves firm,
sub-fleshy; corolla white.

acaulescent; leaves
bright glossy green, up
to ~~2.5~~ 3 m. tall; petiole
cylindric, with a
faint articulation
just below blade,
blade erect; scapes
1–1.5 m. tall, curved
at summit; spathe
firm, fleshy, bronze-green
outside, spike apparently
of uniform flowers.
"buló"

caespitose; heads green.

1965 Caroline Is.

Label typed /

same - on ~~to~~ ridges of earth beside taro-pit

46643 Ficus prolixa var. carolinensis
1 rare

1 44 Phyllanthus amarus
common

same, along road in coconut plantation

43 +45 Terminalia samoensis Rech.
occasional in undergrowth

same - on bare coral gravel in full sun.

~~3~~ 2 46 Nostoc commune
abundant

same, - on bare boulder ridge of coarse coral rocks.

32 47 (blue green alga)

Ulithi Atoll

sprouts and seedling only seen.

shrub 3 m. tall; flowers white, fruit ~~green~~ immature.

dark dull drab green, gelatinous, bladder-like.

staining rock very dark.

1965 Caroline Is.

July 30 – left Ulithi at 10:15 a.m. through pass between Begef and Mas Islets.

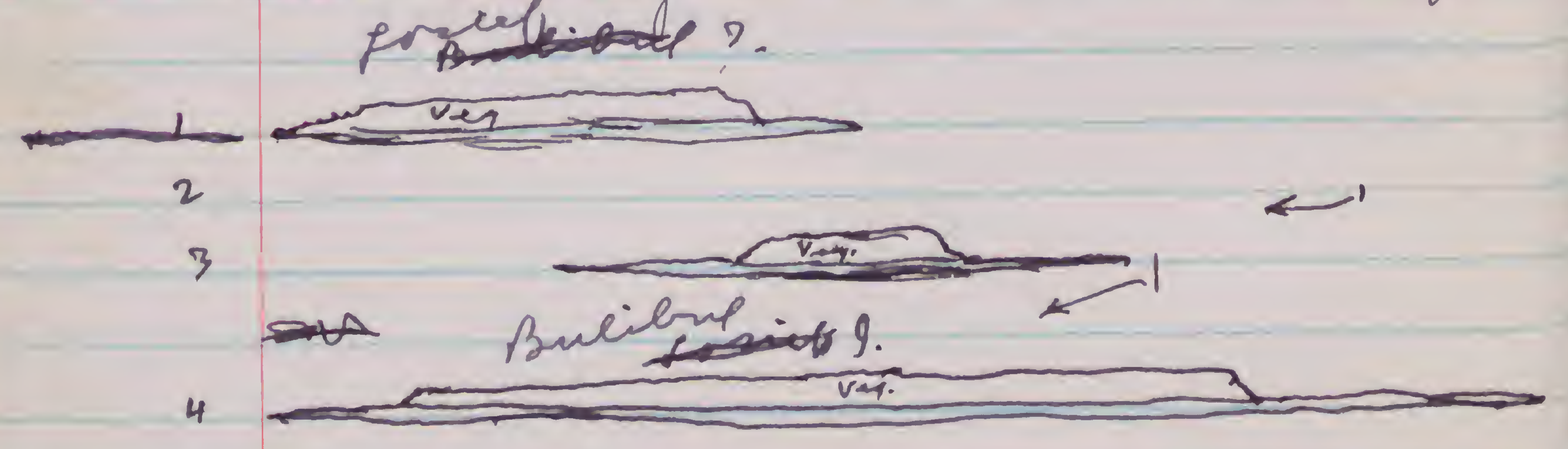
Begef has no visible plants. Is merely a tiny sand-bar with considerable debris. Almost submerged at high tide.

Mas has a small grove of Tournefortia and two coconut trees.

A brown booby fishing near Begef.

Outside we headed east. On right ahead are Bulibul and Losief Islets with a small one between them, all apparently well vegetated. No details yet.

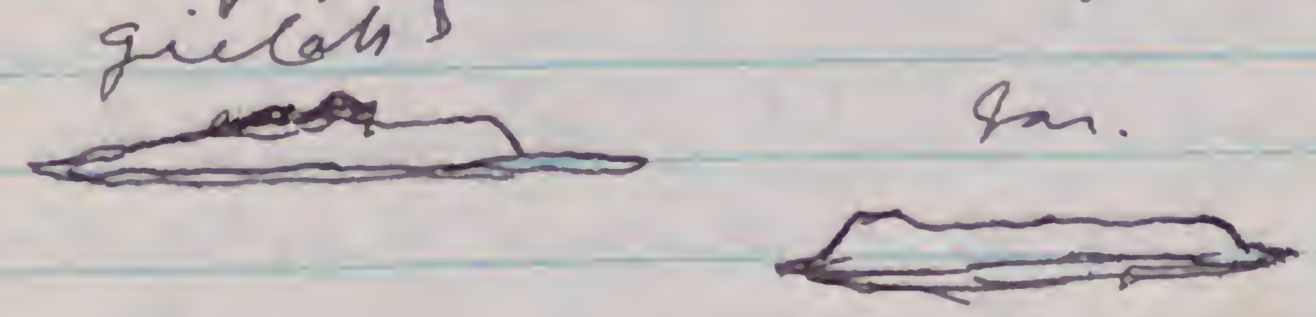
Ahead in the distance are Gielap I. and Iar I. also well vegetated. No details yet.



Thru glasses from several miles north these islets are located on extensive white sand flats (even at rather high tide – They are rather well covered with coconuts but seem to be predominantly natural vegetation with coconuts emergent from it. Nowhere do the coconuts seem to form a closed canopy. The small islet between them has fewer coconuts. The reef between the three seems to form a continuous line of green and breakers. The small islet to the east is merely a sand bar with no vegetation, almost connected with ~~Bulibul~~. Losief.

Photos (Kod.) 4 shots Losief, Bulibul 125 f.11
" " f 8

Gielap & Iar islets from the n.w. scarcely seem to be connected with a breaking reef. From east the reef is clear.



Iar has quite a few coconuts emergent from native forest, but not a complete canopy. Gielap has coconuts only on the w. third. Dark emergent trees (breadfruit?) in center native forest on east half. (over.)

1965 Caroline Is.

The native forest on Gielap appears to be Tournefortia on periphery. The tall trees in center could be either Pisonia or bread fruit, prob. Pisonia. The coconuts in the west end are, in one spot, very yellow. Veg. slopes gradually up from east on Gielap. Reef extends far to east. Appears to be lagoon water to east of the two islets for some distance.

Photos Kod. Gielap, Ias Gielap, Ias 125 stop 8 + 11 then one of both islets at f 11.

Arrived at Fais about 3 pm. ~~South~~ West shore has ~~3~~. 3 stretches of beach – a short one at the south end, a long one in the middle, a medium one at north end. These are fronted by a low-tide reef flat, backed by ~~a~~ sand flats with coconut plantations. A house in center one. Between these are vertical cliffs 8–10 m. high, mostly undercut between tides.

Top of island has coconut plantation, but between cliff edge and coconuts is a strip with very low vegetation, then shrubs, then Pandanus, Barringtonia and several other

trees. The low vegetation zone is discontinuous, appears to be grass. Shrubs are Tournefortia and probably Scaevola. At south end the cliffs do not have a grassy zone, are rougher, seem to have Pandanus dubius as well as P. tectorius, and a mixed scrub forest. Flat at south end has many buildings under coconut trees. Broad reef flat extending south. 20 or 30 people on beach and out on exposed reef flat.

Went ashore at 3:45 p.m at s.w. corner of island over broad reef flat – an almost indiscernible channel through outer edges of reef that is partly protected from the west by a projection of the reef where waves break. There is no trace of an algal ridge. Much of reef flat seems to be a platform of large "wheels" of Heliopora(?) (a brown tabular Porites-like coral, seen at Pikelot). Tide very low. Beach here is sandy but with large slabs of beachrock much abraded, here and there. [illegible]

1965 – Caroline Is.
Pochochoy, ~~Fatadol~~, ~~[illegible]~~
July 30 – Village on plateau, ~~east~~ south end of island
around dwellings under coconut trees.

Labels typed

46648 Ocimum ~~canum~~ sanctum L.
2 1 in garden
1 +49 Hymenocallis littoralis (Jacq.) Salisb.

1 50 Citrus grandis (L.) Osb.?
~~too~~ planted
1 51 Citrus sinensis Osb.
planted
2 +52 Caesalpinia pulcherrima
planted
1 +53 Mammea odorata (Raf.) Kost.
one tree seen
1 +54 Hernandia sonora L.
one tree seen
1 +55 Capsicum frutescens L.
uncommon
~~8~~ 1 +56 Hippobroma longiflora (L.) Don.
very local
~~2~~ 1 +57 Paspalum conjugatum Berg
weed in ~~trail~~ path
~~4~~ 2 58 Ixora casei Hance
one bush seen

July 30 ~~[illegible]~~ – inland from ~~Fatadol~~, south end of island
in cultivated sweet-potato fields
2 +59 Chrysopogon aciculatus
local in edges of

Fais

1.5 m ↓

aromatic, flowers purple.

scape 1.5 m. tall, leaves distichous,
— flowers white.
sterile shrub.

small tree, sterile.

shrub 2 m. tall,
— flowers scarlet.
small tree 8 m. tall,
— sterile.
tree 15 m. tall, sterile.

shrub 1 m. tall; flowers
— white, greenish in center.
flowers white

large shrub 4 m. tall,
flower scarlet "~~[illegible]~~ hachin"

prostrate with erect scapes.

Labels typed

1965 Caroline Is.

46660 Vigna marina (Burm.) Merr.
1 + common

1 +61 Portulaca samoensis v. Poelln.
occasional

x 1 62 Ipomoea batatas
abundantly cultivated

9 5 3 63 Phyllanthus urinaria L.
very local

x 1 64 Boerhavia ~~diffusa~~ mutabilis
occasional

1 +65 Paspalum conjugatum Berg
occasional

c 1 66 Acalypha lanceolata Willd.
common

3 1 67 Polygala paniculata L.
common

1 68 Phyllanthus amarus
occasional

2 1 69 Oxalis corniculata L.
occasional

2 1 70 Sida microphylla Cav.
occasional

4 1 71 Corchorus aestuans L.
common

4 1 72 Emilia sonchifolia (L.) DC.
common

9 3 73 Digitaria? violascens Link
common locally

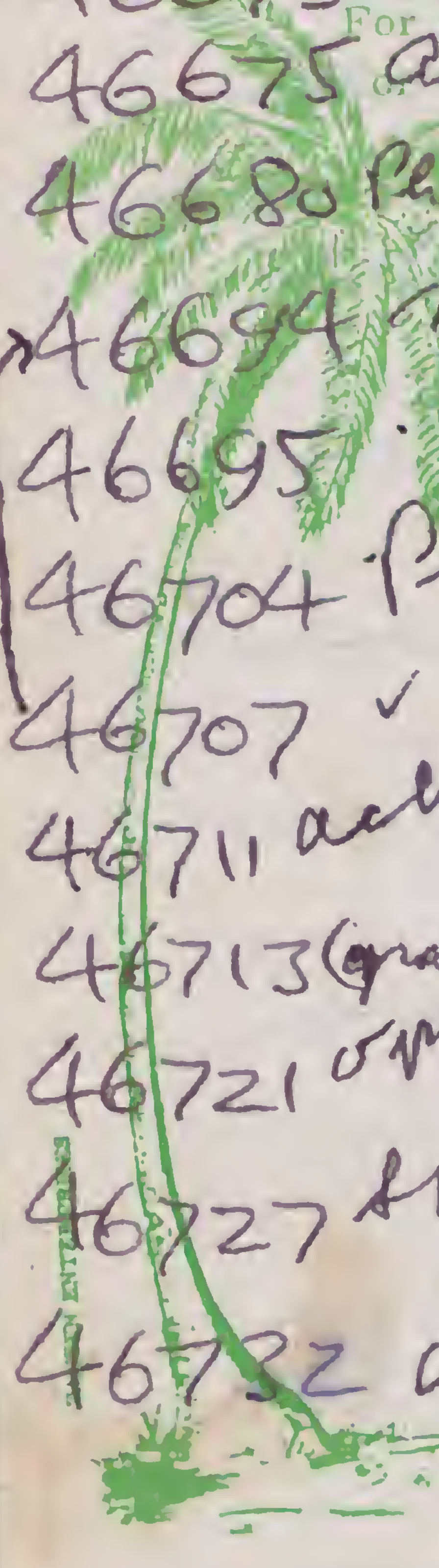
1 74 Paspalum ~~dilatatum~~ scrobiculatum L.
rare

2. 75 Andropogon? intermedius R.Br.
local

1 76 Dioscorea esculenta var. fasciculata (Roxb.) Pr. & Burk.
planted

Fais

[illegible] yellow.



Mayo Nurse[illegible] Memo
For help in your garden, call 778-114
or write to Box 55[illegible] [illegible]ana, Guam

46663 Phyllanthus ✓ 343 Amaranthus ✓
46666 Acalypha ✓ 365 Polyscias ✓
46673 Digitaria ✓
46675 Andropogon ✓ 381 Cucumis ✓?
46680 Phyllanthus ✓ 383 Euphorbia ~~[illegible]~~ chamaesyce? ✓
46694 Melochia ✓
46695
46704 Psychotria ✓
46707 ✓ achyranthes
46711
46713 (grass) ✓
46721 operculina ✓
46727 Sporobolus ✓
46732 asplenium ✓

These are numbers of plants named to Genus only & not put on Mayo cards.

WE AINT MAD AT NOBODY - - WELL, MAYBE THERE MIGHT BE ONE OR TWO.

[illegible] to.

nodes.

~~[illegible]~~ mostly prostrate, stems red; flowers yellow.

flowers purple.

caespitose, erect.

erect

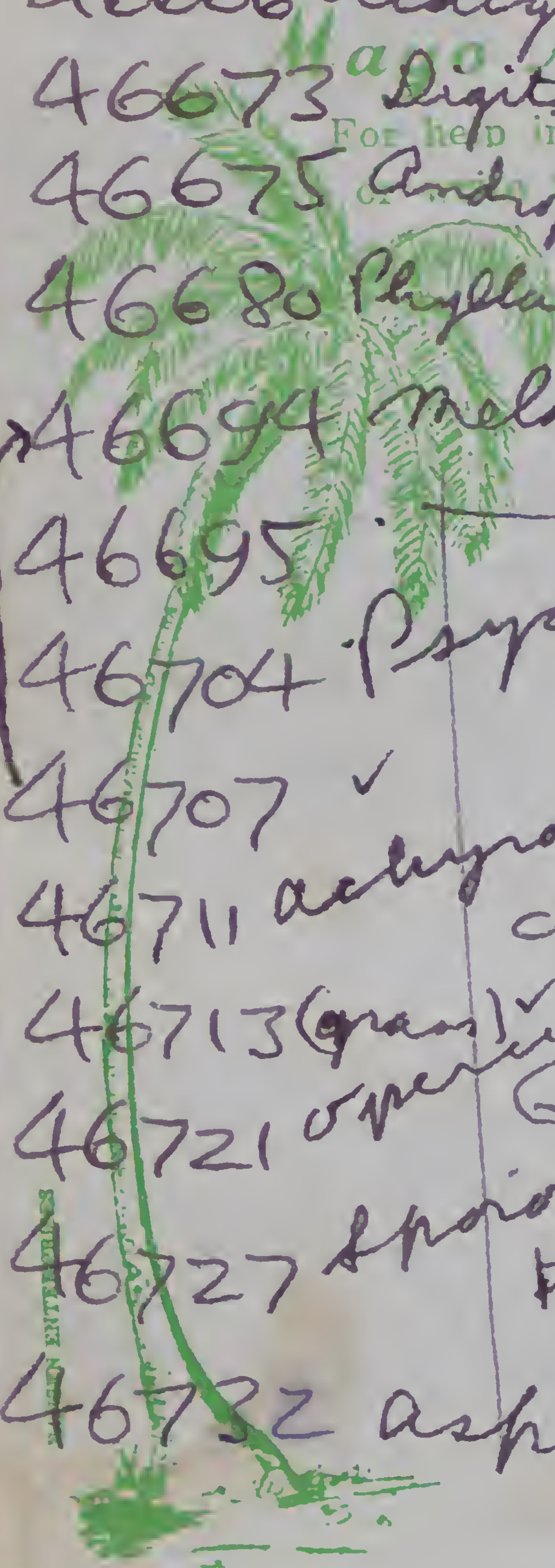
culms ascending.

vine climbing on bush.
sterile.

Mayo Nursery Memo

For help in your garden, call 778-114

or Amado [illegible] Box 55[illegible]ana, Guam



46663 Phyllanthus ✓ 343 Amaranthus ✓

46666 Acalypha ✓ 365 Polyscias ✓

46673 Digitaria ✓

46675 Andropogon ✓ ~~[illegible]~~ 381 Curcuma ✓

46680 Phyllanthus ✓ 383 Euphorbia

~~[illegible]~~

46694 Melochia ✓ chamaesyce ? ✓

46695

Psychotria ✓

46704

46707 ✓

achyranthes

46711

46713 (grass) ✓

operculina ? ✓

46721

Sporobolus ✓

46727

46732 asplenium ✓

These are numbers of plants named to Genus only & not put on Mayo cards.

WE AINT MAD AT NOBODY - - WELL, MAYBE THERE MIGHT BE ONE OR TWO.

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occasional

4 1 66 Acalypha lanceolata Willd.
common

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common

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occasional

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rare

2. 75 Andropogon ? intermedius R.Br.
local

1 76 Dioscorea esculenta var. fasciculata (Roxb.) Pr. & Burk.
planted

Fais

prostrate; flowers yellow.

prostrate, fleshy.

prostrate; sterile.

stems reddish.

prostrate

erect

erect.

erect; flowers white.

prostrate, rooting at nodes.

prostrate

~~Pe~~ mostly prostrate, stems red; flowers yellow.

flowers purple.

caespitose, erect.

erect

culms ascending.

vine climbing on bush.
sterile.

Labels typed

1965 Caroline Is:

46677 Cassia occidentalis L.
x 1 + occasional

d x 1 78 Desmodium triflorum (L.) DC.
occasional

5 1 +79 Physalis angulata L.
locally common

2 x 1 80 Phyllanthus amarus Sch. & Th.
locally common at
edge of

same – in coconut plantation
on plateau

6 2 81 Premna obtusifolia R. Br.
common

2 1 +82 Rhoeo spathacea
common around taro pit

1 83 Cyrtosperma chamissonis Merr.
planted in moist taro pit

2 1 +84 Blechum brownei v. puberulum Leon.
weed in moist taro pit

3 2 85 Hedyotis corymbosa (L.) Lam.
occasional in clearings

1 +86 Terminalia catappa L.
rare

7 2 87 Callicarpa candicans (Burm. f.) Hochr.
occasional (several plants
represented in collection)

3 1 88 Mussaenda frondosa L.
occasional

2 89 Dioscorea bulbifera
occasional

6 3 90 Mussaenda frondosa L.
occasional

Fais

erect, 1.5 m. tall, flowers
yellow

prostrate, forming mat.
branched herb.

15 m

↓

small understory tree,
fruit immature.
spreading by rhizome;
leaves fleshy, brittle,
dark purple beneath,
bracts purple.
erect, 1 m. tall, sterile.

flowers white

small sterile tree.

dwarf shrub 3-4 dm. tall;
flowers rose-pink.

small tree 5 m. tall,
enlarged calyx lobe white.
extensive sterile vine.

large shrub 4 m. tall. enlarged
calyx lobe white, corolla bright deep yellow.

1945 Caroline Is.

Labels typed

46691 Hibiscus tiliaceus L.
4 + common
1 +92 Ipomoea littoralis Bl.
rare
6 +93 Cassytha filiformis L.
common, parasitic on various hosts.
5 94 Melochia compacta Hochr.
common

x 3 95 (moss)
local in ground
2 96 Alocasia macrorrhiza
common in small clearings, where planted, and in coconut groves.

3 +97 Polypodium scolopendria Burm. f.
locally abundant
1 98 Eugenia ~~cf. aquea~~ javanica Lam. ~~aquea L.~~ ?
2 trees seen
x 6 99 Randia cochinchinensis (Lour.) Merr.
common
46700 Vernonia cinerea (L.) Less. var. parviflora
x 2 + locally common
2 +01 Euphorbia hirta L.
local
2 +02 Tacca leontopetaloides (L.) O. Ktze.
common
2 03 Artocarpus altilis (Park.) Fosb.
common
1 04 Psychotria
occasional
x 5 05 Nephrolepis (cf. biserrata Sw.) hirsutula Forst. f.
abundant

Fais

small tree 6 m. tall.

twiner; sterile.

stems green; flowers white.

shrub 3 m. tall; flowers deep crimson in center, white outer part.

stem 5 dm. tall; leaf blades erect; spathe purplish-bronze; spathe of white flowers, with yellow sterile appendage.
— rhizomes creeping, fronds erect.
— small tree; sterile.

shrub 1–1.5 m. tall,
— fruits turning reddish.
flowers purple

scape and leaves erect,
— ~~scape~~ to 1 m. tall.
tree 6 m. tall; sterile. (lactiferous)
— small shrub, only seen
— sterile.
fronds erect.

~~19~~1965 Caroline Is.

Labels typed

46706 Morinda citrifolia L.
x 1 + abundant, especially
young plants.
x 1 07 Melochia compacta Hochr.
occasional
2 +08 Calophyllum inophyllum L.
occasional
1 +09 Thuarea ~~involuta~~
occasional
3 +10 Centella asiatica (L.) Urb.
very local

Yldow (or Ylthow)
same - small ~~grass~~
opening dominated by
tall grass

x 1 11 Achyranthes aspera L.
common
x 1 12 Clerodendrum speciosissimum
occasional
1 13 (grass)
dominant plant
1 14 Hibiscus abelmoschus
uncommon

~~July 30 south coast~~
~~same~~ ~~in dense~~

Yldow, west coast near south
end of island
in dense scrub forest
back of cliffs

x 2 15 Pandanus tectorius Park.
abundant, locally dominant
x 2 +16 Barringtonia asiatica (L.) Kurz
abundant, locally dominant

Fais

shrub 3 m. tall; leaves
glossy; flowers white.

shrub 2.5 m. tall, flowers
white with red center.
– small sterile tree.

prostrate, mostly sterile.

prostrate, rooting
at nodes.

repeatedly branched herb
– 1 m. tall.
~~herb~~ suffrutescent herb
2.5 m. tall. flowers
scarlet.
– rhizome prostrate above
ground, branches erect, to
– 1 m. tall; sterile.
sterile

15 m

spreading tree 5 m. tall.

tree, to 8 m. tall, flowers
from ground beneath.

1945 Caroline Is.

Labels typed

46717 Ficus tinctoria Forst.f.
1 x occasional in undergrowth

1 +18 Guettarda speciosa L.
common

1 19 Pipturus argenteus
common

x1 20 Pipturus argenteus
common

1 21 ~~Operculina~~ ? Operculina ventricosa (Bert.) Peter?
rare

1 22 Allophyllus timorensis
rare

same - on rough limestone cliff 15 m

1 23 Pandanus dubius
dominant on ledges

yellow
same - on open very rough coral limestone terrace at top of cliffs 1 m ↓

x2 24 Wedelia biflora (L.) DC.
common

4 6 25 Fimbristylis cymosa R.Br.
common

14 10 26 Heliotropium anomalum H.&A.
very common

x 6 27 Sporobolus farinosus Hosok.
pure stand, in spray zone

Fais

shrub; fruit green.

small sterile tree.

shrub 4 m tall, ♀

shrub 3 m. tall. ♂

extensive twiner, stems slightly angled but definitely not winged; sterile.

– sterile seedling.

coarse, heavy shrub 3 m. tall; sterile, leaves to 2 m. long or more.

prostrate, extensive, leaves succulent; heads yellow.

– tufted, stiff.

prostrate dwarf shrub flowers white. leaves fleshy.

– large dense tussocks of fibrous bases, to 3-4 dm tall completely sterile; leaves glaucous.

1965 Caroline Is.

Labels typed ~~Fais~~

46728 Hedyotis albido-punctata (L.)
11 abundant

1 +29 Tournefortia argentea L.f.
common

x4 30 Scaevola taccada (Gaertn.)
common

Fatadol ~~s~~ south end of island
same - on cliffs
shaded by coconuts

3? 31 Hedyotis albido-punctata
common on rough limestone.

6 32 Asplenium adiantoides (L.) C.Chr.
very locally abundant

8 33 Paspalum distichum L.
(ctd. from p. 153) dominant locally

Top of beach covered by Vigna marina in a great mat. Scaevola common at back of this, with some Tournefortia. Coconut grove back of this beach is very luxuriant. A very short distance in the rough limestone cliff begins - here not very steep. Quite, under the [illegible] coconut trees Asplenium and Hedyotis albido punctata. On top is coconut

Fais

Mer. prostrate; leaves firm, ~~fl~~ somewhat fleshy; corollas white.
— shrub 1.5 m. tall, leaves frosty green, fleshy; flowers white.
Roxb. — shrub, m. tall, flowers and ripe fruit white.

10 m

↓ prostrate, fleshy; flowers white.

Plantation with scattered small trees + shrubs —
Morinda citrifolia
Artocarpus
Eugenia cf aquea
Carica
Terminalia catappa
Melochia
Premna obtusifolia
Calophyllum inophyllum
Randia cochinchinensis
(shrubs only, seen)
Scaevola
Musa sapientum
Clerodendrum speciosissimum
Hibiscus tiliaceus
Ochrosia oppositifolia
(over)

On the ground Tacca and Alocasia (especially) are common, though and Morinda seedlings. In openings are planted sweet potatoes and Alocasia. No tobacco or Manihot were seen, but these are known to be raised here, tobacco, at least, in quantity.

In one such clearing a coarse erect grass is dominant (46713), but none was seen fertile. Achyranthes was common mixed with it.

Along the west side of the plateau, back from the top of the cliffs is a strip of rather low forest, dominated mostly by Barringtonia asiatica, locally by Pandanus tectorius.) It is 20-100 m. wide. Its inner edge is largely Pipturus, Premna, Melochia, Morinda, etc. Where the outer edge of this comes to the cliff, as near the south-west corner, the cliff edge and ledges are occupied by Pandanus dubius forming a coarse

rigid scrub. The cliff is of rough limestone and bare spots in it have Fimbristylis cymosa, Hedyotis albidopunctata, and Wedelia.

Farther north, the outer edge of the forest zone is back as much as 50 m. from the edge of the cliff. The edge is largely Pandanus but with a fringe of Scaevola and scattered Tournefortia. The ground here is pitted coral limestone of extreme sharpness but the pitting rather fine rather than pinnacled. This is covered locally with a pure stand of Paspalum distichum, locally with a mixture of Heliotropium anomalum, Hedyotis albidopunctata, and Wedelia biflora with scattered shrubs of Scaevola and Tournefortia, and with a strip of varying width just back of the edge, in the spray zone when the weather is at all rough, of a grass that forms dense, extremely firm tussocks, with fibrous masses of leaf and culm bases up to 3 dm. high and 2 dm wide, with erect linear glaucous leaves up to 2-3 dm long. This is at this season entirely sterile, but is almost surely the Sporobolus collected on Orote Point, Guam in 1963.

In the interior of the plateau are large open fields planted to sweet potatoes. These are many acres in extent, back of the village that is at the top of the escarpment in the middle of the south end. The soil in these fields is, at the surface, at least, composed of pea-sized and smaller spherical pellets of earthy material - probably the phosphate that was mined by the Japanese. A considerable assortment of weeds is common in these fields.

The village is densely shaded by coconut trees and the houses

are surrounded by Citrus, Carica, Musa, Ixora, Hymenocallis, and other planted ornamental and edible plants.

One small Cyrtosperma pit, without water, was seen in the interior.

Remains of a narrow-guage railway ran along the foot of the escarpment, back of the beach.

We had to leave between 6 and 6:30, so the reconnaissance was indeed hasty. To the east along the south coast, beyond the village, are more cliffs, and an area of sloping lighter green vegetation. This was not identified.

Collected about 82 species.

In addition Michael got
Eleusine indica
Amaranthus sp.
Eragrostis tenella
Pilea microphylla
Plumeria rubra
Polyscias scutellaria
P. guilfoylei
Piper betle

1945 Caroline Is. Fais

Capparis cordifolia
Crinum asiaticum
Polyscias sp.
Ocimum canum (tall green form)
Muntingia calabura
Delonix regia!
Euphorbia cyathophora
Crateva speciosa
Zephyranthes rosea
Ochrosia oppositifolia
Zoysia tenuifolia
Mirabilis jalapa
Euphorbia chamaesyce
Colocasia esculenta
Xanthosoma sagittifolia
Curcuma sp.

The Curcuma collected by Michael is probably not identifiable, as it is a very depauperate specimen. I saw what was probably the large one with rose bracts, but sterile only. Did not collect it.

July 31 – enroute to Lamotrek.
Wind is southwest something over 10 knots. (Echin says this is normal wind direction for July & August, trades the rest of the year.)
At sunset, just west of Faraulep, high cirrus cirro-cumulus clouds are moving from north or northeast across new moon.
Saw a brown booby (immature) (or immature other species) circling around boat for a few minutes, probably looking for fish.

Aug. 1 – passed Olimarao, with 2 islets, at about 7:30 but did not see it until so far past that I could only make out for certain that it is wooded.
Elato ahead. One Elato large islet on north side, one or two tiny ones far to south. Of these, the one farthest to east has only a few trees. Echin says there are people on Elato, and an entrance to the lagoon.
From a bit closer, another tiny islet can be seen, much farther to the southeast. Then another

well wooded

Olatel I.
Kari I.

this with only a few trees
Falipi I.

1965 Caroline Is.

Faite I. Lamotrek fairly large islet far to the northeast.

Olar I. Tops of trees barely visible between the two tiny islets farthest to south-~~east~~.

Toas I. Then more tree tops between the big islet and the first one to the south. The last two seen are obviously across the lagoon.

From a bit farther on, a tiny islet, much smaller than any of the others, can be seen between the first and second counter-clockwise from the larger one. Looks like only one or two trees.

Then, far in the distance dead ahead, another fairly large islet can be seen. Pugue I. Lamotrek atoll. Later, Lamotrek I. can be seen in distance bet. Faite and Pugue.

High overcast over the entire sky. Very threatening weather to the west.

From north Elato Islet looks like a solid broad-leaf forest with coconuts emergent from it.

All three islets of Lamotrek

are well wooded, ~~Faite~~ and well planted to coconuts. Faite seems, from the north, to have a dense broad-leaf understory under an almost complete coconut canopy.

A large boulder on reef about 1/3 the way from Pugue to Faite.

Something probably corresponding to Riguirifuai I. can be seen on the s. w. reef but apparently has no vegetation. Later - appears to be a sand bar.

A long sand spit, entirely bare, extends along the reef from Pugue I. toward Faite about the length of Pugue and not quite connected with it. On inner edge of reef.

N.W. side of Pugue has considerable broad-leaf undergrowth, esp. toward n.e., little near s.w. end. N. side, toward n.e. has solid Tournefortia forest. Some Pisonia near center, almost as tall as coconuts. Coconuts sparse in the Tournefortia on n.e. part. Boulder ridge and rather open vegetation on ~~n.e.~~ east shore. Bushes darker green than Tournefortia.

1965 Caroline Is.

Bare sand bar on reef between Lamotrek Islet and the passage.
Several small bars and reefs exposed on south reef about 1/4 or 1/3 the way from Lamotrek to Faite. No veg. These will vary in number and extent with tide. Observations made about 8 a.m.

Cordia, Premna trees around landing. Colocasia, ~~Alocasia~~ Xanthosoma growing subspontaneously.
Breadfruit emergent over coconut canopy.

✓ Callicarpa -	ligitar
✓ Hed. biflora	"hupunsai
✓ Portulaca sam.	hop.
✓ Nic. tab	tobac
✓ Ip. bat.	kamoto
✓ Fimb. cym.	puhor
✓ Zoysia	mugor pahur
✓ Plumeria	Seur
✓ Cath. ros	peru pur
✓ Ocimum canum	whanung

Lamotrek Atoll

✓ Phyll. amar.	walpariki
✓ Cordia	haran
✓ Erag. tenella	merval
✓ Eleusine	puguruman
✓ Euph. cyath.	wanapii
✓ Vernonia	chor aniti wai
✓ Fleurya rud.	afelefele-ages
✓ Polypod. scol.	shirishi
✓ Premna	iar
✓ Colocasia	motomori
Xanthosoma 2 spp.	from Hawaii
✓ Zephyranthes rosea	pingtata
Pand. tect.	far
✓ Gomphrena	wai
✓ Caesalp. pulch.	waru pii
✓ Cuc. max	~~catabua~~ Calavuar
✓ Tagetes	puarang
✓ Carica	faiwai
✓ Alocasia	Fithea (6 ft tall)

1965 Caroline Is.

✓	Pasp. conj.	pugu paraf
✓	Polypodium punct.	hoyang
✓	Cler. inerme	habui
✓	Pteris tripartita	siviliguai
✓	Cratera	afus
✓	Morinda	leri
	Musa	wis
✓	Crinum	iup
✓	Artocarpus	mai
✓	Hib. x ros.-sin. schiz.	pwácha
✓	Cyrtosp.	puak
✓	Hib. til.	filifong
✓	Barringt. rac.	sas
✓	Ficus tinct.	awan
✓	Vigna	holu
✓	Nephrolepis	"hamaia" "hamala"
✓	Acrostichum	"hapaho"

Lamotrek atoll

-	Hedychium	chawiwi
✓	moss (leucophanes)	pogor
✓	Pand. dubius	pahó
✓	Hed. coron.	chabubu
✓	Alpinia pur.	telán
✓	Curcuma	ianju
✓	sugarcane	wöw
·	Canna	punang
✓	Cyps. dardas	pogoreliwoipod
✓	Ceratopteris	martiri
✓	Thelypteris	hamara
✓	Lindernia	harholu
	white L. antipoda	
✓	Polygonum	ormed

taro pit
≠ Col. & Cyrt.

✓	Hymenocal.	lirio
✓	Pseuderanth.	habui

1945 Caroline Is

✓ Piper	tolboy
✓ Inocarpus	huro
✓ Allophylus	ngeu o leu
✓ Wedelia	atiot
✓ Pisonia	hadu
✓ Eugenia aquea	fariap fruit eaten
✓ Pipturus	aroma
✓ Guettarda	ort
✓ Bar. asiatica	hul
✓ Scaevola	hernay
✓ Ip. pes-c.	huálimá
✓ Tournefortia	Ched

heavy black pumice called "oár" used to sharpen knives.

✓ Term. sam.	kil
✓ Calophyllum	ragaoh
✓ Triumfetta	hozá horá

The center of the islet is a great taro marsh, not obviously excavated, surrounding ground peaty. Cyrtosperma dominant. A great many weeds.

Coconut plantation nearby has quite a few breadfruit trees and many shrubs, esp. Premna, Callicarpa and Morinda. Pandanus dubius rare. Barringtonia ~~in ed~~ racemosa in edge of marsh.

Toward ~~east,~~ east end of islet the ground gets rocky, coconuts less common, breadfruit still common. Understory of Morinda, Allophylus, Callicarpa, Premna. Pipturus becomes more dense and taller, Premna and Morinda tree size. On s.e. corner, Guettarda forms forest, but is in singularly poor condition. Scaevola thickets, to 5 m. and Tournefortia fringe top of beach on boulder ridge.

1965 Caroline Is.

This thicket very dense. Polypodium scol. very common everywhere.

There has been much brush-cutting, burning, etc.

Around taro pit a hibiscus hybrid is very abundant, also H. tiliaceus.

Along beach ridge Tournefortia reaches at least 15 m tall, Guettarda 10 m.

Hernandia	o'hadi
Cenchrus	munyan
Cassytha	tish
Thespesia	pula
Bruguiera	song
Tacca	mokumok

Lamotrek atoll

In evening, as we were going down the lagoon toward the pass we saw a great flock of brown boobies, apparently fishing in the lagoon, probably between 100 + 200 individuals.

Labels typed

1965 Caroline Is.

with M. Evans Aug. 1 – Lamotrek Islet, in village around dwellings and in gardens

46734 ~~2~~1 Ipomoea batatas (L.) Poir. cultivated

~~4~~ 1 +35 Asclepias curassavica L. cultivated

~~3~~ 1 +36 Mirabilis jalapa L. planted

~~3~~ 2 +37 Euphorbia cyathophora Murr. weed, locally abundant

~~2~~ 1 +38 Eleusine indica (L.) Gaertn. common weed

3 +39 Eragrostis tenella (L.) Beauv. common locally

~~3~~ 4 40 Phyllanthus amarus common locally

~~3~~ 2 41 Polyscias fruticosa planted

1 +42 Nicotiana tabacum L. planted

~~3~~ 2 +43 Paspalum conjugatum Berg rare, in Zoysia turf

1 44 Ocimum ~~sanctum~~ L planted

~~3~~ 2 +45 Catharanthus roseus (L.) Don. common

~~3~~ 2 46 Zoysia tenuifolia abundant locally

1 +47 Plumeria rubra L. occasional

1 48 Fimbristylis cymosa R.Br. rare

Lamotrek atoll

creeping to ascending, sterile. "kamote"

herb. much branched ~~herb~~ from base, flowers red, corona orange.

much branched herb, flowers crimson. bracts red at base. "wairupii"

"puguruman"

"purál"

"walpar'hi"

shrub 1 m. tall; sterile. "boyang"

herb 1 m. tall; corolla limb bright rose pink. "talai"

erect tuft.

"fugur parap"

aromatic herb 3 dm. tall purplish. "wharung"

herb 4–5 dm. tall, corollas bright rose pink. "pen pui"

forming dense mat. "pugor kahru" or "puhor pahiri"

shrub 3 m. tall, lactiferous, sterile. "leur"

"puhor"

Labels typed 7+8

1965 Caroline Is.

46749 Portulaca samoensis v. Poelln.
1 + common locally on bare coral gravel

1 50 Hedyotis biflora (L.) Lam.
rare on bare coral gravel

1 51 Alocasia macrorrhiza
common

1 52 Zephyranthes rosea
planted

1 +53 Gomphrena globosa L.
planted

7+8 54 Tagetes
planted

1 55 Cucurbita maxima
planted

7+8 +56 Caesalpinia pulcherrima (L.)
planted

1 57 Xanthosoma violacea
planted

1 58 Xanthosoma sagittifolia
planted

1 59 Colocasia esculenta (L.) Schott
planted, on dry land

2 60 Pteris tripartita
occasional

2 +61 Calophyllum inophyllum L.
occasional

3 +62 Hernandia sonora L.
rare

1 +63 Polypodium scolopendria
common around bases of trees.

Lamotrek atoll

prostrate, fleshy, flowers yellow. "hop"

flowers white. "hupursai"

plants with leaves to 2 m. tall, bright green, erect; sterile. "fithea"

flowers pink, fruit immature. "pingtata"

heads magenta. "wai"

"Kuarang" herb to .7 m. tall, with rank odor, flowers orange.

"Calavazas" extensive creeper; leaves spotted; fruit depressed-globose; pedicel abruptly expanded at attachment to 2-3 times its diameter.

Sw. shrub 2 m. tall, flowers scarlet. "warupin"

petioles purple.

petiole green.

"wotomoi"

rhizome short, erect.

"raguth" shrub, sterile (others seen that were trees 8 m. tall)

leaves glossy; sterile. "oy'hadi"

Burm. f. ~~common~~

Labels typed 1965 Caroline Is.

7+8

4 6764 + Pseuderanthemum carruthersii (Seem.)
1 occasional

~~5~~ 3 65 Eugenia ~~cf. aquea~~
occasional

same, on boulder
ridge at ~~south~~ east end
of lagoon beach

~~5~~ 4 +66 Tournefortia argentea L.f.
common, locally dominant

2 +67 Ipomoea ~~sp.~~ pes-caprae,
ssp. brasiliensis (L.) v. Oost.
very local at top of
cobble beach

4 +68 Terminalia samoensis Rech.
rare in forest

5 69 Scaevola taccada (Gaertn.) Roxb.
dominant in edge of
forest

2 +70 Guettarda speciosa L.
dominant in much of forest

1 +71 Barringtonia asiatica (L.) Kurz
occasional

same – at top of sandy beach

~~7~~ 2 +72 Cordia subcordata Lam.
rare

3 +73 Ipomoea littoralis Bl.
locally common

4 +74 Cassytha filiformis L.
locally common

1 +75 Hymenocallis littoralis (Jacq.) Salisb. occasional

Lamotrek Atoll

shrub 2–3 m. tall; green;
flowers white. "habai"

– small tree 6 m. tall;
fruit immature,
borne on smaller branches.
"fariap" fruit eaten.

3 m
↓

small tree 5 m. tall, others
~~seen~~ much taller; ~~f.~~ leaves
fleshy, frosty green; flowers
white. "ched"

– ~~very local at top of~~
~~cobble beach.~~
creeping; sterile. "hwālimá"

shrub 3 m. tall; fruit
immature. "kil"

– shrub 1.5 m. tall (others
seen to 5 m.). flowers white.
"himai"

tree 5 m. tall, sterile.
"ost"

large shrub, all seen sterile.
"hul"

1m

tree 6 m. tall; sterile.
"harau"

creeping and twining;
flowers purple.

– tangled leafless green
stems; flowers white

– scapes and leaves, m. tall. fls. white. "lirio"

Labels typed

1965 Caroline Is.

7+E 6
46 776 Fleurya ruderalis
8 2 + occasional

8 1 +77 Thespesia populnea (L.) Sol. ex Corr.
rare, one tree seen

2 78 Cenchrus echinata L.
very local

8 2 +79 Tacca leontopetaloides (L.) O. Ktze.
very local

8 1 +80 Triumfetta procumbens Forst.
locally common

6 5 81 Stenotaphrum micranthum
locally common

same - in interior
coconut-breadfruit forest

4 2 82 Lepturus repens
common

4 1 +83 Morinda citrifolia L.
abundant in understory

8 2 84 Allophyllus timorensis Bl.
common in understory

8 2 85 Inocarpus fagiferus (Park.) Fosb.
occasional

8 1 86 Piper
rare

4 2 87 Premna obtusifolia R. Br.
very common in understory

4 2 +88 Wedelia biflora (L.) DC.
locally common - in thin
place

2 89 Leucobryum
rare, on coconut trunks

Lamotrek Atoll

stems red, fleshy.
"afelefele lagus"
small sterile tree.

all seen sterile "mokumok"

prostrate with ascending
branches, flower yellow,
mostly seen sterile. "horá"
forming a mat.

forming a loose mat,
mostly sterile.
small tree, flowers white,
fruit fleshy, white when ripe.
"lei"
large shrub 3 m. tall;
flowers white. "ngen" or "lei"
large tree, all seen sterile
"huro"
aromatic vine; sterile.
"tolboy"
small tree, aromatic, flowers and
fruit green. "iar"
elongated tangled herb;
heads yellow. "atiot

"pogo"

Labels typed 7+E

1965 Caroline Is. Lamotrek atoll

1	46790	Crinum cf. asiaticum L. occasional	1m	herb 1 m. tall, all seen sterile. "inp"
3	+91	Polypodium scolopendria Burm.f. abundant, climbing on bases of coconut trees		"shirishi"
1	92	Ficus tinctoria Forst. f. rare		sterile shrub "awan"
3	93	(moss) common on coconut trunks		
5	94	Nephrolepis cf. biserrata very common, terrestrial		fronds erect. "hamará" or "hamalá"
2	95	(moss) ~~[illegible]~~ occasional on coconut trunk		~~[illegible]~~
3	+96	Vigna marina (Burm.f.) Merr. common		creeping & twining vine; flowers yellow. "holu"
4	+97	Clerodendrum inerme (L.) Gaertn. common in forest and peaty edges of taro swamp		arching shrub 1 m. tall, corollas white, stamens maroon. "habui"
~~8~~7	98	Callicarpa candicans very common		shrub 1 m. tall, flowers lavender-pink. "ligitai"
~~4~~3	99	Allophylus timorensis Bl. common in undergrowth		shrub 3 m. tall, flowers white, fruit immature.
2	46800	Artocarpus altilis (Park.) Fosb. dominant or codominant tree	"mai"	small tree 10 m. tall, others seen enormously larger.
2	01	Artocarpus mariannensis Trec. dominant or codominant tree	~~[illegible]~~ "mai"	tree 30 m. tall, leaves picked up on ground beneath.
3	+02	Pisonia grandis R.Br. occasional		large sterile tree. "hadu"
~~4~~4	03	Pipturus argenteus common		shrub 3-4 m. tall, ♂. "aroma"
2	+04	Carica papaya L. common		unbranched tree 4 m. tall, milky, flowers white. "paiwai"
1	05	Crateva speciosa Volk. occasional		small sterile tree. "afur"

Labels typed

1965 Caroline Is.

7+E

46806 Polyporus
rare

1 07 Polyporus
abundant on old fallen partly burned breadfruit trunk

same – in extensive peaty or mucky taro swamp.

1 08 Pandanus dubius
rare in edge of

2 09 Lindernia antipoda
common weed

1 10 Cyperus brevifolius
rare

~~5~~3 11 Hedychium coronarium
locally common

1 12 Canna
very local

~~4~~3 13 Cyperus odoratus L.
occasional

~~1~~2 14 Pteris tripartita
occasional

~~4~~3 15 Alpinia purpurata
local

~~1~~2 3 +16 Ludwigia octovalvis
very common

2 17 Saccharum officinarum L.
commonly planted

2 18 Cyrtosperma merkusii (Hassk.) Schott dit. D.H.Nicolson (US) 6/1988
abundantly planted

2 19 ~~Dryopteris~~ Thelypteris goggilodus
occasional

Lamotrek Atoll

sterile young tree 4 m. tall.
"poho"

corolla delicate, caducous,
lavender.

"chawiwi"
"chabubu"
~~"Chawiwi"~~
herb to 1 m. tall; flowers white, very fragrant.

– herb 1 m. tall, flowers yellow, showy. "purang"
"pogom diwoipod"

rhizome short, erect.
"siviliquai"

"Telán"
herb 2 m. tall, inflorescences deep crimson, no flowers.

herb to 1 m. tall,
– petals yellow, caducous.

canes 2–2.5 cm. thick, 1 m. tall; sterile. "wōw"

– leaves to 1.5 m. tall, blade erect, bright green, mature inflorescence cernuous. "purak"

– rhizome prostrate
"hamara"

Labels typed

1948 Caroline Is.

7+8

4 6 8 20 Cyperus polystachyos L.
occasional
8
3 21 Curcuma cf. domestica
common
4 22 Ceratopteris thalictroides
common
3 +23 Vernonia cinerea var. parviflora
= common
1 24 Colocasia esculenta (L.) Schott
commonly planted
9 25 Bacopa?
abundant

7 8 +26 Hibiscus tiliaceus L.
very common in edges of
6 27 Nephrolepis
on coconut stump in
edges of
7 6 28 Barringtonia racemosa L.
occasional in edges of

5 1 29 Hibiscus rosa-sinensis x schizopetalus ?
very common in edges of
3 +30 Acrostichum aureum L.
occasional in edges of
7 3 +31 Bruguiera gymnorhiza
several trees seen ~~ex~~
9 6 32 Polygonum minus
very common weed

Lamotrek Atoll

all seen sterile, rhizome
yellow, aromatic when
broken. "ianju"
fertile fronds erect. "martin"
heads purple. "cho aniti wai"

sterile, glaucous.

~~stem~~ succulent;
corolla ~~flowers~~ dull whitish
not much exserted. "harhohu".
tree 6 m. tall, flowers
yellow. "filifeu"
fronds erect, arching,
luxuriant.

tree ~~3~~ 8 m. tall, racemes
pendent, flowers pink,
fruit fleshy, very
bluntly square in
cross section. "sar"
shrub 1-1.5 m tall;
flowers scarlet. "pou'cha"
erect, 1 m. tall. "hapaho"

tree 6 m. tall; calyces
bright red.
stems decumbent and
ascending. flowers
pinkish white. "owed"

1965 Caroline Is.

Labels typed

same - on coconut trunks in dense plantation

1 4 6833 (lichen)
1 [34 (lichen)
1] 35 (lichen)
2 36 (moss)
2 37 (moss)
1 * 38 Trentepohlia

bag

~~2 39 Tournefortia~~
~~2 40 Vigna~~
~~4 41 Scaevola~~
~~3 42 Cassytha~~

Lamotrek Atoll

1-3 m

Cale

1 4 6
1 2
1 2
1 2
2
2
1 1

8
2
4
3